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BULLETIN
OF THE
UNIVERSITY
OF
DAYTON



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1952

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1953



ANNOUNCEMENTS

1952 - 1953

UNIVERSITY OF DAYTON BULLETIN

COLLEGE OF ARTS AND SCIENCES
COLLEGE OF ENGINEERING

VOLUME LXIII

JUNE, 1952

NUMBER 3

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UNIVERSITY OF DAYTON

COLLEGE OF ARTS AND SCIENCES

DIVISION OF ARTS

DIVISION OF BUSINESS ADMINISTRATION

DIVISION OF EDUCATION

DIVISION OF SCIENCE

COLLEGE OF ENGINEERING

CHEMICAL ENGINEERING

CIVIL ENGINEERING

ELECTRICAL ENGINEERING

INDUSTRIAL ENGINEERING

MECHANICAL ENGINEERING

TECHNICAL INSTITUTES

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For catalogue and information, address:

THE DIRECTOR OF ADMISSIONS

UNIVERSITY OF DAYTON

DAYTON 9, OHIO

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1952

SEPTEMBER

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1953

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JULY

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CALENDAR

Day Classes, 1952-1953

FIRST SEMESTER

Sept. 8, 9, Monday, Tuesday, 8:20 a.m.	Placement tests for all new students, including transfer students, who have not already taken these tests at the University of Dayton Guidance Center.
Sept. 8, Monday	Registration for upperclassmen of Dayton area, A to L.
Sept. 9, Tuesday	Registration for upperclassmen of Dayton area, M to Z.
Sept. 10, Wednesday	Registration for all beginning freshmen, A to L.
Sept. 11, Thursday	Registration for all beginning freshmen, M to Z.
Sept. 12, Friday	Registration for boarding students and those whose permanent residence is not in Dayton. (Breakfast on this day is first meal served in campus dining room.)
Sept. 13, Saturday 8:00 a.m.-12:00 noon	Registration for all transfer students, including U. D. students changing to a different division.
Sept. 15, Monday	Classes begin at 8:00 a.m.
Sept. 18, Thursday	Mass in honor of the Holy Ghost.
Sept. 20, Saturday	Last day for late registration or change in schedules.
Oct. 6, 7, 8, Monday, Tuesday, Wednesday	Annual Retreat.
Oct. 9, Thursday	Solemn Closing of the Retreat at 8:00 a.m.
Nov. 1, Saturday	Feast of All Saints. No day classes.
Nov. 8, Saturday	Mid-term progress reports.
Nov. 26, Wednesday	Thanksgiving recess begins at 12:00 noon.
Nov. 30, Sunday	Campus students return before 11:50 p.m.
Dec. 1, Monday	Classes resume at 8:00 a.m.
Dec. 8, Monday	Feast of the Immaculate Conception. No day classes.
Dec. 20, Saturday	Christmas recess begins at noon.

1953

Jan. 4, Sunday	Campus students return before 11:50 p.m. (First meal served on following day in campus dining room.)
Jan. 5, Monday	Classes resume at 8:00 a.m.
Jan. 22, Thursday	Chaminade Day.
Jan. 26-Jan. 30, Monday-Friday	Semester examinations.

SECOND SEMESTER

Feb. 2, 3, Monday, Tuesday, 8:20 a.m.	Placement tests for all new students, including transfer students, who have not already taken these tests at the University of Dayton Guidance Center.
Feb. 2, Monday	Registration for upperclassmen of Dayton area, A to L.
Feb. 3, Tuesday	Registration for upperclassmen of Dayton area, M to Z.
Feb. 4, Wednesday	Consultation and registration for all new students, and for U. D. students transferring to a different division.
Feb. 5, Thursday	Registration for boarding students and those whose permanent residence is not in Dayton, A to L.
Feb. 6, Friday	Registration for boarding students and those whose permanent residence is not in Dayton, M to Z.
Feb. 9, Monday	Classes resume at 8:00 a.m.
Feb. 14, Saturday	Last day for late registration or change in schedules.
Feb. 18, Wednesday	Ash Wednesday
Mar. 28, Saturday	Mid-term progress reports.
Apr. 1, Wednesday	Easter recess begins at 12:00 noon.
Apr. 6, Monday	Campus students return before 11:50 p.m.
Apr. 7, Tuesday	Classes resume at 8:00 a.m.
May 14, Thursday	Feast of the Ascension. No day classes.
May 29, Friday	Honors Convocation.
May 30, Saturday	Memorial Day. No classes.
May 31, Sunday	Baccalaureate service.
June 1-June 5, Monday-Friday	Semester examinations.
June 6, Saturday	Commencement, 2:30 p.m.

SUMMER SCHOOL

June 22-August 2, 1953

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WILLIAM J. WOHLLEBEN, S.M.

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HARRY C. BAUJAN, *Athletic Director*

WILLIAM J. BELLMER, S.M., JEROME A. McAVOY, S.M., WILLIAM J. WOHL-
LEBEN, S.M.

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C. KUNTZ, J. ELLIS MAYL, CHARLES WHALEN, JR.

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NER, S.M., JEROME A. McAVOY, S.M.

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S.M., ELMER C. LACKNER, S.M., JEROME A. McAVOY, S.M., LOUIS A. SALETTEL,
S.M.

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JAMES H. KLINE, S.M., *Chairman*

SR. M. THEOPHANA, M.S.C.

RESIDENCE HALLS AND CAMPUS POLICIES

REV. CHARLES L. COLLINS, S.M., *Chairman*

GEORGE W. NAGEL, S.M., JOHN R. PERZ, S.M.

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ROBERT E. DONOVAN, *Assistant to the Director of Evening Classes, Evening Classes Representative at Wright Patterson Air Force Base, Director of Veteran's Affairs*; JAMES E. GALLICO, *Assistant to the Director of Admissions*; DONALD C. METZ, *Assistant to the Director of Evening Classes, Director of Technical Institute*; MARY TUITTE, *Assistant Registrar*.

SECRETARIAL STAFF

JULIE TIMMER, *Dean of the University*; ROSE STEPHAN, *Treasurer*; KATHARINE ANGST, *Director of Admissions*; PATRICIA HICKEY, *Dean of Students*; MRS. ROBERT L. ROHR, *Dean of the College of Arts and Sciences*; MARY CAREY, *Dean of the College of Engineering*; RUTH NARTKER, *Dean of Business Administration*; BUENA GREER, *Director of Veterans' Affairs*; DOROTHY DWENGER, *Registrar*; MRS. LOUISE GIBSON, *Information*.

GUIDANCE CENTER STAFF

LLOYD A. RENSEL, *Director*; IVA LOU ALLER, *Counselor*; JACK BRAMLAGE, *Counselor*; GEORGE COFFROAD, *Veterans Administration Training Specialist*; MRS. VERNON GANTZ, *Counselor—Administrative Supervisor*; ROBERTA MCMAHON, *Psychometrist*; JULIE PFLAUM, *Psychometrist*; EDWARD E. RIECK, *Veterans Administration Adviser*; MRS. LESTER SMITH, *Counselor*.

UNIVERSITY PHYSICIANS

A. W. CARLEY, M.D., C. J. DERBY, M.D., M. R. HALEY, M.D., A. P. McDONALD, M.D., E. J. McLAUGHLIN, M.D., R. C. MILLER, M.D., C. D. PADAN, M.D., W. A. REILING, M.D., R. C. SCHNEBLE, M.D., C. SOMSEL, M.D., LEON DEGER, D.D.S., C. J. SCHNEBLE, D.D.S.

FACULTY

(Day and Evening Classes)

The year appearing in parenthesis indicates the date of the first appointment to the University.

RUSSELL G. ALBERTS, B.A.Sc. (1950)

Instructor in Mechanical Engineering, 1950.

B.A.Sc., University of Toronto, 1947.

RICHARD A. ANDUZE, B.S. (1951)

Part-time Instructor in Spanish, 1951.

B.S., University of Dayton, 1945.

RICHARD RUSSELL BAKER, PH.D. (1947)

Associate Professor of Philosophy, 1948.

A.B., University of Notre Dame, 1931; M.A., University of Notre Dame, 1934; Ph.D., University of Notre Dame, 1941.

EDWARD J. BALDINGER, M.C.E. (1947)

Assistant Professor of Civil Engineering, 1950.

B.S., Civil Engineering, University of Notre Dame, 1940; M.C.E., University of Michigan, 1951; Prof. Eng.

WALTER CHARLES BARNES, A.B. (1945)

Part-time Instructor in Accounting, 1945.

A.B., Coe College, 1929.

REV. JAMES W. BARTHOLOMEW, S.M., M.A. (1949)

Assistant Professor of Classical Languages and Religion, 1951.

A.B., University of Dayton, 1929; M.A., The Catholic University of America, 1942.

HARRY CLIFFORD BAUMAN, PH.B. OF C. (1922)

Associate Professor of Physical and Health Education, 1939; Athletic Director, 1947.

Ph.B. of C., University of Notre Dame, 1917.

ERVING EDWARD BEAUREGARD, M.A. (1947)

Assistant Professor of History, 1950.

A.B., University of Chicago, 1942; M.A., University of Massachusetts, 1944.

WILLIAM ANTHONY BECK, S.M., PH.D. (1912)

Professor of Biology, 1926.

B.S., University of Dayton, 1908; M.S., University of Fribourg (Fribourg, Switzerland), 1912; Ph.D., University of Fribourg, 1926.

WILLIAM JOSEPH BELLMER, S.M., M.A. (1927)

Head of Department and Professor of Mathematics, 1935.

B.S., University of Dayton, 1921; M.A., The Catholic University of America, 1932.

CHARLES JOHN BELZ, S.M., B.S., M.C.E. (1928)

Professor of Civil Engineering, 1937.

B.S., University of Dayton, 1912; B.C.E., University of Dayton, 1928; M.C.E., The Catholic University of America, 1934; Prof. Eng.

FERNE R. BERNER, R.N., B.S. (1945)

Assistant Professor of Nursing Education, 1949.

B.S., University of Dayton, 1945.

RICHARD E. BIEDENBENDER, M.S. (1949)

Part-time Instructor in Mathematics, 1949.

B.S., University of Dayton, 1950; M.S., Michigan State College (Lansing, Michigan), 1951.

LEONARD THOMAS BLACKBURN, A.B. (1947)

Instructor in Physical and Health Education and Basketball Coach, 1947.

A.B., Wilmington College, 1931.

REV. CHARLES C. BLOEMER, S.M., M.A. (1948)

Assistant Professor of Philosophy, 1951.

A.B., University of Dayton, 1930; M.A., University of Fribourg (Fribourg, Switzerland), 1936; M.A., The Catholic University of America, 1950.

REV. THOMAS HENRY BODIE, S.M., M.A. (1946). Absent on leave.

Assistant Professor of Religion, 1948.

A.B., University of Dayton, 1921; M.A., St. John's University (Brooklyn, New York), 1942.

LAWRENCE LEO BOLL, S.M., PH.D. (1927)

Professor of English, 1927.

A.B., University of Dayton, 1912; M.A., The Catholic University of America, 1925; Ph.D., The Catholic University of America, 1929.

JOHN BOONE, M.B.A. (1950)

Part-time Instructor in Economics, 1950.

A.B., Duke University, 1948; M.B.A., Harvard University, 1950.

ALICE HILDA BORGH, R.N. (1951)

Part-time Instructor in Art, 1951.

Francis Harrington Professional School of Interior Decorating, Chicago Art Institute.

SCOTT T. BOWERS, M.ED. (1946)

Assistant Professor of Psychology, 1949.

B.S., Ohio University, 1936; M.Ed., Ohio University, 1945.

LLOYD P. BRENBERGER, B.S. IN I.E. (1951)

Part-time Instructor in Business Organization, 1951.

B.S. in I.E., General Motors Institute, 1951.

- REV. JOSEPH S. BRUDER, S.M., M.A., S.T.D. (1948)
Assistant Professor of Philosophy, 1949.
A.B., University of Dayton, 1922; S.T.D., University of Fribourg (Fribourg, Switzerland), 1935; M.A., The Catholic University of America, 1949.
- ALPHONSE J. BRUNE, LL.B. (1951)
Part-time Instructor in Business Organization, 1951.
B.S., University of Missouri, 1942; LL.B., Northwestern University, 1948.
- EDWARD ROBBINS BURROUGHS (1938)
Assistant Professor of Art, 1941; Dean, School of the Dayton Art Institute, 1937.
Graduate, Maryland Institute of Fine and Applied Art, 1926.
- WILLIAM FRANCIS CAHALAN, M.A. (1946)
Assistant Professor of Psychology, 1949.
A.B., Fordham University, 1935; M.A., Columbia University, 1941; Certified Psychologist and Counselor, 1948.
- JOSEPH JENKS CHAMBERLAIN, JR., M.C.E. (1937)
Professor of Civil Engineering, 1948.
C.E., Cornell University, 1911; M.C.E., Harvard University, 1912; Prof. Eng.
- CLETUS CHARLES CHUDD, S.M., M.S. (1947). Absent on leave.
Instructor in Chemistry, 1947.
B.S., University of Dayton, 1935; M.S., Western Reserve University, 1948.
- MARY CLAIRE CIVILLE, B.S. (1947)
Assistant Professor of Secretarial Studies, 1950.
B.S., Ohio University, 1934.
- EVA LOUISE CLARK, B.S. (1950)
Part-time Instructor in English and Speech, 1950.
B.S., Ashland College (Ashland, Ohio), 1942.
- REV. BERTRAND EDMUND CLEMENS, S.M., M.A. (1948)
Assistant Professor of English, 1951.
A.B., University of Dayton, 1938; M.A., Western Reserve University, 1951.
- REV. CHARLES LEO COLLINS, S.M., PH.D. (1941)
Head of Department and Professor of Psychology, 1945; Dean of Students, 1949.
A.B., University of Dayton, 1925; Ph.D., Fordham University, 1941.
- ORVILLE COMER, M.S. IN RET. (1950)
Assistant Professor of Business Organization, 1950.
B.S. in Ret., Washington University (St. Louis, Missouri), 1948; M.S. in Ret., Washington University, 1949.

IRVING J. DALIN, B.C.S. (1951)

Part-time Instructor in Russian, 1951.

B.C.S., New York University, 1944.

ADDIS H. DALY, ED.M. (1951)

Assistant Professor of Education, 1951.

A.B., St. Bonaventure University, 1931; Ed.M., Tufts College, 1949.

URBAN A. DEGER (1939)

Part-time Instructor in Music, 1939.

Studied music under Michael Lurz, S.M., 1899-1902; under Dr. W. L. Blumenschein, Dayton, Ohio, 1901-1903; under Dr. N. J. Elsenheimer and Professor W. S. Sterling, College of Music, Cincinnati, Ohio, 1906-1908.

JAMES B. DESCH, A.B. (1951)

Part-time Instructor in English, 1951.

A.B., University of Dayton, 1950.

PAUL E. DEWEY, B.S. (1951)

Part-time Instructor in Business Organization, 1951.

B.S., University of Akron, 1942.

VICTOR M. DILGARD, A.B. (1951)

Part-time Instructor in Psychology, 1951.

A.B., University of Dayton, 1948.

THOMAS R. DILL, M.B.A. (1951)

Part-time Instructor in Business Organization, 1951.

M.B.A., Harvard University, 1947.

REV. JAMES E. DONNELLY, S.M., A.B. (1947)

Assistant Professor of English, 1948.

A.B., University of Dayton, 1925.

ROBERT EMMETT DONOVAN, B.S. (1946)

Assistant Professor of Mathematics, 1948; Assistant Professor of General Engineering, 1951; Evening Classes Representative at Wright-Patterson Air Force Base and Director of Veterans' Affairs, 1951.

B.S., University of Dayton, 1932.

CHARLES E. DUGAN, M.B.A. (1948)

Part-time Instructor in Economics, 1951.

B.S., The Ohio State University, 1938; M.B.A., The Ohio State University, 1948.

ORVILLE E. DUNN, JR., B.S. IN E.E. (1949)

Instructor in Electrical Engineering, 1949.

B.S. in E.E., University of Notre Dame, 1948; Prof. Eng.

WILLIAM EIFFERT, B.C.E. (1950)

Part-time Instructor in Civil Engineering, 1950.

B.C.E., Purdue University, 1938.

CARLETON R. ELLIOTT, B.S. IN M.E. (1951)

Part-time Instructor in General Engineering, 1951.

B.S. in M.E., Washington University (St. Louis, Missouri), 1937.

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Assistant Professor of Philosophy, 1945.

A.B., University of Dayton, 1928.

ROBERT A. ENOCH (1940)

Part-time Instructor in Music, 1940.

Instruction in clarinet under Joseph Elliott of the Cincinnati Symphony Orchestra, 1939-1940; piano and composition under Dr. L. W. Sprague, 1939-1941.

ALBERT R. EVANS, SFC. (1951)

Assistant Instructor in Military Science and Tactics, 1951.

JULIA CAREY EVERETT, R.N., B.S. (1940)

Assistant Professor of Nursing Education, 1946.

B.S., University of Dayton, 1940.

SYLVESTER EVESLAGE, M.S. (1948)

Assistant Professor of Chemistry, 1951.

B.S., University of Notre Dame, 1944; M.S., University of Notre Dame, 1945.

LOUIS JOSEPH FAERBER, S.M., PH.D. (1948)

Associate Professor, 1949, and Head of the Department of Education, 1951; Associate Dean, Head of the Division of Education, 1951.

A.B., University of Dayton, 1930; M.A., The Catholic University of America, 1938; Ph.D., The Catholic University of America, 1948.

PETER JOSEPH FASO, M.S. (1946)

Associate Professor of Biology, 1950.

B.S., Villanova College, 1936; M.S., Villanova College, 1941.

CON JOHN FECHER, PH.D. (1935)

Lecturer in Economics, 1935.

A.B., Miami University (Oxford, Ohio), 1924; M.A., The Catholic University of America, 1925; Ph.D., The Catholic University of America, 1927.

CLIFFORD M. FELLOWS, B.S. (1951)

Part-time Instructor in Business Organization, 1951.

B.S., Boston University, 1948.

HENRY LEO FERRAZZA, M.A. (1950)

Instructor in Physical and Health Education, 1950.

B.S., University of Dayton, 1949; M.A., Western Reserve University, 1950.

- REV. JOHN PAUL FINKE, S.M., A.B., B.TH. (1947). Absent on leave.
Assistant Professor of Religion, 1948.
A.B., University of Dayton, 1929; B.Th., University of Fribourg (Fribourg, Switzerland), 1937.
- RITA DUNCAVAGE FINKE, M.A. (1948)
Counselor and Social Director, St. Elizabeth School of Nursing, 1948.
B.S., Albright College, 1946; M.A., Syracuse University, 1948.
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Part-time Instructor in Mathematics, 1951.
B.S., University of Dayton, 1949; M.S., Michigan State College (Lansing, Michigan), 1951.
- THOMAS H. FOGT, B.S. IN M.E. (1951)
Part-time Instructor in General Engineering, 1951.
B.S. in M.E., The Ohio State University, 1948.
- WALTER G. FREMONT, SR. (1947)
Part-time Instructor in Business Organization, 1947.
- REV. FRANCIS J. FRIEDEL, S.M., PH.D. (1927)
Professor of Sociology, 1935; Dean of the College of Arts and Sciences, 1950.
A.B., University of Dayton, 1917; S.T.B., S.T.L., University of Fribourg (Fribourg, Switzerland), 1925; S.T.D., University of Fribourg, 1926; M.A., The Catholic University of America, 1935; Ph.D., University of Pittsburgh, 1950.
- WILLIAM S. FRY, B.S. (1951)
Part-time Instructor in Accounting, 1951.
B.B.A., Sinclair College, 1940; B.S., Miami University (Oxford, Ohio), 1941.
- ELLSWORTH M. GABRIEL, M/SGT. (1950)
Administrative Assistant, Department of Military Science and Tactics, 1950.
- JAMES JOHN GALLAGHER, PH.D. (1951)
Part-time Instructor in Psychology, 1951.
B.S., University of Pittsburgh, 1947; M.S., Pennsylvania State College, 1950; Ph.D., Pennsylvania State College, 1951.
- JAMES EDWARD GALLICO, B.S. (1947)
Assistant to Director of Admissions, 1949.
B.S., Fordham University, 1935.
- MARGARET WILSON GALLICO, M.A. (1948)
Assistant Professor of Psychology, 1949.
A.B., New Rochelle College, 1937; M.A., Fordham University, 1939; Certified Clinical Psychologist, 1947; Fellowship of American Association of Mental Deficiency.

JOSEPH JOHN GAVIN, A.B. (1947)

Instructor in Physical and Health Education and Head Football Coach, 1947.

A.B., University of Notre Dame, 1931.

JOHN J. GEDEON, B.LITT., PH.L. (1947)

Assistant Professor of Psychology, 1950.

B.Litt., Xavier University (Cincinnati, Ohio), 1943; Ph.L., West Baden (Indiana), 1946.

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A.B., Trinity College (Washington, D. C.), 1913; M.A., University of Notre Dame, 1936.

IRA L. GOULD, B.S. IN M.E. (1951)

Part-time Instructor in Physics, 1951.

B.S. in M.E., New Mexico A. & M., 1948.

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Head of Department and Professor of Physics, 1927.

B.S., University of Dayton, 1916; M.S., University of Fribourg (Fribourg, Switzerland), 1925; Ph.D., University of Fribourg, 1926.

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B.S., Ohio University, 1938.

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Instructor in Economics, 1950.

A.B., LaSalle College (Philadelphia, Pa.), 1948; M.A., Fordham University, 1950.

KENNETH D. HAINES (1951)

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AUDREY HARGIS, R.N., B.S. (1948)

Instructor in Nursing Education, 1948.

B.S., University of Texas, 1946.

NELSON N. HARPER, JR., M.A. (1947)

Assistant Professor of Music, 1950.

B.S., The Ohio State University, 1942; M.A., The Ohio State University, 1947.

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Assistant Professor of Military Science and Tactics, 1950.

DONALD HAYWARD, B.S. (1950)

Part-time Instructor in Mathematics, 1950.

B.S., Wittenberg College, 1947.

GERTRUDE D. HECKMAN, M.S. (1949)

Assistant Professor of Biology, 1951.

B.S., Mary Manse College (Toledo, Ohio), 1945; M.S., University of Detroit, 1948.

THEODORE HEIMANN (1939)

Assistant Professor of Music, 1947.

Graduate of the College of Oslo, Norway, and Koenigstadtisches Gymnasium in Berlin; Special studies, University of Berlin; studied under Lilli Lehmann, Umlauf, Lieban and Albini.

HELMUT G. HEINRICH, D.E.S. (1951)

Part-time Instructor in General Engineering, 1951.

B.M.E., Stettin (Germany), 1931; B.A.E., Institute of Technology (Stuttgart, Germany), 1937; M.A.E., Institute of Technology, 1938; D.E.S. (Doctor of Engineering Science), Institute of Technology, 1943.

JOHN RICHARD HERRON, A.B. (1947)

Part-time Instructor in Geology, 1947.

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AUSTIN JOSEPH HOLIAN, S.M., M.S.E.E. (1944)

Associate Professor of Electrical Engineering, 1946; Business Manager, 1950.

B.S., University of Dayton, 1931; B.S.E.E., Case Institute of Technology, 1942; M.S.E.E., Case Institute of Technology, 1944.

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B.S., University of Dayton, 1935; M.A., University of Dayton, 1942.

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Part-time Instructor in Art Education, 1950.

B.F.A., Barnard College, 1943.

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Part-time Instructor in Mathematics, 1951.

B.S.E.E., Iowa State A. & M., 1946; B.S., University of Dayton, 1950.

EDWARD ANDREW HUTH, PH.D. (1939)

Head of Department, 1946, and Professor of Sociology, 1950.

A.B., Heidelberg College, (Tiffin, Ohio), 1921; M.A., University of Notre Dame, 1928; Ph.D., Western Reserve University, 1943.

- WILLIAM HYDE, B.S. IN I.E. (1952)
Part-time Instructor in Business Organization, 1952.
B.S. in I.E., General Motors Institute, 1950.
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Part-time Instructor in Accounting, 1951.
B.S., Ball State Teachers College, 1947; M.B.A., Indiana University, 1948.
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Assistant Professor of Mathematics, 1950.
B.M.E., University of Dayton, 1943; M.Sc., University of Michigan, 1949.
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Lecturer in Home Economics, 1947.
A.B., Carleton College, 1925; Ph.D., Iowa State College, 1941.
- RUSSELL ALBERT JOLY, S.M., M.S. (1941)
Head of Department, 1949, and Associate Professor of Biology, 1951.
B.S., University of Dayton, 1930; M.S., Institutum Divi Thomae (Cincinnati, Ohio), 1940.
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Assistant Professor of Military Science and Tactics, 1951.
B.S., West Virginia University, 1938.
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Part-time Instructor in Business Organization, 1951.
LL.B., University of Cincinnati, 1950.
- PAUL KATZ, B.M. (1939)
Part-time Instructor in Music, 1939.
Juilliard Scholarship with Leopold Auer, 1922-1924; studied also with Heermann, Seveik, Ysaye; Theory with Reigger, Elwell, and Boulanger.
- ELBERT E. KIBELE, MAJOR, B.S. (1949)
Assistant Professor of Military Science and Tactics, 1949.
B.S., The Ohio State University, 1930.
- OLIVER G. KINNEY, LT. COLONEL, A.B. (1951)
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A.B., University of California, 1936.
- MARJORIE KLINE (1950)
Part-time Instructor in Music, 1950.
Studied under Edw. Waechter, Giovanni Bruno, William Smith, Paul Katz, and Scott Westerman.
- REV. HENRY J. KOBE, S.M., A.B. (1933)
Associate Professor of History, 1943; Dean of the University, 1949.
A.B., University of Dayton, 1925.

- GEORGE FRANCIS KOHLES, S.M., M.A. (1935)
Associate Professor of English, 1941.
A.B., University of Dayton, 1922; M.A., The Catholic University of America, 1932.
- DOROTHY KOOGLE, B.S. (1950)
Part-time Instructor in Education, 1950.
B.S., University of Dayton, 1946.
- MORRIS JAMES KREIDER, M.A. (1947)
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B.S., Miami University (Oxford, Ohio), 1933; M.A., Miami University, 1941.
- ROBERT E. KRIEGBAUM, M.A. (1950)
Assistant Professor of Secretarial Studies, 1951.
A.B., Wittenberg College, 1939; M.A., The Ohio State University, 1950.
- ELMER CHARLES LACKNER, S.M., M.A. (1940)
Associate Professor of History, 1946; Assistant to the President, 1951.
A.B., University of Dayton, 1927; M.A., Western Reserve University, 1941.
- MAURICE O. LAWSON, B.S. (1951)
Part-time Instructor in Mathematics, 1951.
B.S., Indiana University, 1947.
- DANIEL LEO LEARY, PH.D. (1937)
Professor of Education, 1937; Director of Student Teaching, 1951.
A.B., Creighton University, 1917; M.A., Peabody College, 1928; Ph.D., Colorado State University, 1934.
- CHARLES LEESE, PH.D. (1951)
Part-time Instructor in Business Organization, 1951.
B.S., Gettysburg College, 1924; M.B.A., University of Pennsylvania, 1925; Ph.D., University of Pennsylvania, 1929.
- REV. EDWIN MATTHIAS LEIMKUHLE, S.M., M.A. (1934)
Head of Department and Professor of Religion, 1934.
A.B., The Catholic University of America, 1927; M.A., The Catholic University of America, 1940.
- RICHARD ALLEN LIEBLER, S.M., M.A. (1949)
Assistant Professor of Political Science and History, 1951.
B.S., University of Dayton, 1939; M.A., Western Reserve University, 1947.
- GERALD B. LISZAK, B.S. IN I.E. (1951)
Part-time Instructor in Industrial Engineering, 1951.
B.S. in I.E., General Motors Institute, 1949.
- CLINTON E. LOTT, SFC. (1952)
Assistant Instructor in Military Science and Tactics, 1952.

BARTLETT C. LUBBERS, M.A. (1949)

Instructor in Education, 1949.

B.S., University of Dayton, 1947; M.A., The Ohio State University, 1949.

JOHN JOSEPH LUCIER, S.M., PH.D. (1945)

Instructor in Chemistry, 1945.

B.S., University of Dayton, 1937; M.S., Western Reserve University, 1950;

Ph.D., Western Reserve University, 1951.

FRANCIS GLENN MCGOVERN, M.B.A. (1947)

Assistant Professor of Economics, 1947.

B.S., Providence College, 1938; M.B.A., Boston University, 1941.

FRANCIS H. MCGOVERN, B.S. (1951)

Part-time Instructor in English, 1951.

B.S., St. Joseph's College (Philadelphia, Pa.), 1950.

JOHN IRA MCGRATH, M.A., M.S.O. (1946)

Director of University Players, 1946; Associate Professor of Speech, 1951.

A.B., The Catholic University of America, 1935; M.A., The Catholic University of America, 1936; M.S.O. (Master of Science of Oratory), Curry School, 1938.

JAMES L. MCGRAW, B.S. (1952)

Part-time Instructor in Business Organization, 1952.

B.S., Lafayette College, 1951.

SISTER M. LUCY, S.P.S.F., R.N., A.B. (1948)

Instructor in Nursing Education, 1948.

A.B., Quincy College, 1940.

SISTER M. MINALIA, S.P.S.F., R.N., M.A. (1940)

Director of St. Elizabeth School of Nursing, Head of Department and Associate Professor of Nursing Education, 1948.

B.S., University of Dayton, 1934; M.A., University of Dayton, 1942.

ROBERT J. MAINS, B.S. (1951)

Part-time Instructor in Accounting, 1951.

B.S., University of Dayton, 1949.

SISTER MARIE EMILIE, S.N.D. DE N., M.A. (1949)

Assistant Professor of English, 1951.

A.B., Trinity College (Washington, D.C.), 1914; M.A., Trinity College, 1915.

SISTER MARY PELAGIA, M.S.C., PH.D. (1943)

Associate Professor of Education, 1946.

A.B., Villanova College, 1927; M.A., Villanova College, 1935; Ph.D., The Catholic University of America, 1946.

STANLEY MATHEWS, S.M., M.A. (1951)

Assistant Librarian, 1951.

A.B., University of Dayton, 1943; M.A., Western Reserve University, 1949.

ROBERT E. MAUSHARDT, M/SGT. (1952)

Assistant Instructor in Military Science and Tactics, 1952.

JOSEPH J. MERVAR, S.M., M.A. (1951)

Director of Evening Classes and Registrar, 1951.

B.S., University of Dayton, 1935; M.A., The Catholic University of America, 1945.

DONALD C. METZ, M.S.I.E. (1951)

Associate Professor and Director of Technical Institute, 1951.

B.S.E.E., Purdue University, 1930; M.S.I.E., Purdue University, 1949.

MILDRED HUNTER MILES, M.A. (1948)

Part-time Instructor in Music, 1948.

B.S., Wittenberg College, 1929; M.A., The Ohio State University, 1939.

GRAY E. MILLER, B.S. (1950)

Part-time Instructor in Business Organization, 1950.

B.S., Pennsylvania State College, 1908.

VELMA MAE MILLER, M.ED. (1940)

Head of Department, 1944, and Associate Professor of Secretarial Studies, 1947.

B.C.S., Ohio Northern University, 1930; M.Ed., University of Cincinnati, 1937.

REV. LAWRENCE WILLIAM MONHEIM, S.M., M.A. (1937)

Associate Professor of Religion, 1941.

A.B., University of Dayton, 1925; M.A., The Catholic University of America, 1942.

PATRICIA A. MONNETTE, B.S. (1949)

Instructor in Physical and Health Education, 1950.

B.S., The Ohio State University, 1949.

ADRIAN MORGAN, B.S.E.E. (1948)

Instructor in Electrical Engineering, 1949.

B.S.E.E., Purdue University, 1948.

GRACE ELIZABETH MORRISSEY, M.A. (1947)

Assistant Professor of Mathematics, 1951.

A.B., Trinity College (Burlington, Vt.), 1945; M.A., The Catholic University of America, 1947.

JOSEPH MOYLAN, M.A. (1951)

Part-time Instructor in Psychology, 1951.

A.B., University of Dayton, 1950; M.A., Bowling Green State University (Ohio), 1951.

TIMOTHY A. MURNANE, JR., A.B. (1949)

Part-time Instructor in English, 1951.

A.B., Marquette University, 1949.

HARRY C. MURPHY, M.A. (1950)

Assistant Professor of Business Organization, 1950.

B.B.A., University of Minnesota, 1948; B.S., University of Minnesota, 1949; M.A., University of Minnesota, 1951.

ANDRE J. NADEAU, M.A. (1948)

Assistant Professor of Physical and Health Education, 1950.

B.S., Appalachian State Teachers College, 1940; M.A., New York University, 1947.

GEORGE WILLIAM NAGEL, S.M., M.A. (1941)

Associate Professor of History, 1947; Associate Dean, Head of the Division of Business Administration, 1949.

B.S., University of Dayton, 1922; M.A., Western Reserve University, 1941.

REV. BERNARD NEUBAUER, S.M., A.B. (1947)

Assistant Professor of Philosophy, 1951.

A.B., University of Dayton, 1935.

GLADYS LOUISE NIELSEN, M.A., M.S. IN S.S. (1946)

Part-time Instructor in Sociology, 1951.

A.B., Wellesley College, 1927; Certificat d'Etranger, Universite de Lyon (France), 1928; M.A., University of Chicago, 1929; M.S. in Social Service, Fordham University, 1949.

HAROLD NIELSEN, B.S. (1946)

Part-time Instructor in Mechanical Engineering, 1951.

B.S., U. S. Naval Academy, 1929.

ROBERT B. O'DONNELL, M.A. (1951)

Assistant Professor of History, 1951.

A.B., St. Mary's College (Halifax, N.S.), 1927; M.A., Fordham University, 1930.

FRANK R. OGLESBY (1951)

Part-time Instructor in Business Organization, 1951.

EDMUND BERNARD O'LEARY, PH.D. (1924)

Head of Department of Business Organization, 1938, and of Department of Economics, 1941; Professor of Economics and Business Organization, 1924.

B.S., The Ohio State University, 1924; M.A., University of Chicago, 1928; Ph.D., The Ohio State University, 1939.

ANDREW P. ORTH, M.A. (1951)

Lecturer in Business Organization, 1951.

B.S., University of Pennsylvania, 1922; B.S.C., Drexel Institute (Philadelphia), 1924; M.A., University of Pennsylvania, 1926.

JEROME HENRY PARR, S.M., M.S. IN M.E. (1947)

Head of Department, 1948, and Associate Professor of Mechanical Engineering, 1951.

B.S., University of Dayton, 1932; B.M.E., The Catholic University of America, 1946; M.S. in M.E., Carnegie Institute of Technology, 1947.

ELIZABETH PAYNE, B.S. (1950)

Instructor in Home Economics, 1950.

B.S., Mount St. Joseph-on-the-Ohio, 1942.

CYRIL GEORGE PECKHAM, M.S. (1941)

Associate Professor of Mathematics, 1949.

A.B., University of Illinois, 1936; M.S., University of Illinois, 1939.

IRENE M. PECKHAM, M.A. (1946)

Assistant Professor of English, 1949.

B.S., Blackburn College and University of Illinois, 1939; M.A., University of Illinois, 1941.

ANNA MAE PERRY, R.N., B.S. (1950)

Instructor in Nursing Education, 1950.

B.S., University of Dayton, 1948.

JOHN RAYMOND PERZ, S.M., PH.D. (1926)

Professor of German and Spanish, 1931; Head of Department of Modern Languages, 1936.

A.B., University of Dayton, 1921; M.A., The Catholic University of America, 1929; Ph.D., The Catholic University of America, 1934.

THOMAS LEO POITRAS, S.M., M.A. (1905)

Professor of French, 1934.

B.S., University of Dayton, 1907; A.B., University of Dayton, 1911; B.S. in Music, Extension Conservatory of Chicago, 1928; M.A., The Catholic University of America, 1934; Diplome de professeur de francais a l'Etranger, The Sorbonne (Paris), 1938; Diplome d'Etudes francaises superieures, University of Besancon, 1938; Diplome d'Etudes de Civilisation francaise, The Sorbonne, 1939.

KENNETH E. POLING, A.B. (1951)

Part-time Instructor in Political Science, 1951.

A.B., University of Dayton, 1950.

ALBERTA GINSTIE PRATHER, M.A. (1946)

Assistant Professor of Mathematics, 1949.

A.B., Miami University (Oxford, Ohio), 1925; B.S., Miami University, 1926; M.A., Miami University, 1937.

- REV. CHARLES VINCENT PREISINGER, S.M., M.A. (1926)
Associate Professor of History and Speech, 1943; Head of Department of Speech, 1946.
A.B., University of Dayton, 1918; M.A., The Catholic University of America, 1934.
- THOMAS JOSEPH PRICE, S.M., M.A. (1926)
Professor of English, 1948.
A.B., University of Dayton, 1911; M.A., The Catholic University of America, 1935.
- JOSEPH DANIEL QUINN, B.S. (1946)
Instructor in Physical and Health Education and Assistant Football Coach, 1946.
B.S., University of Dayton, 1942.
- STEPHEN RAYMOND QUINN, B.S., LL.B. (1948)
Part-time Instructor in Economics, 1948.
B.S., University of Notre Dame, 1942; LL.B., University of Notre Dame, 1947.
- MARY C. QUIRK, M.A. (1946)
Part-time Instructor in Speech, 1946.
B.S., The Ohio State University, 1936; M.A., The Ohio State University, 1938.
- ELIZABETH D. REEL, M.A. (1950)
Instructor in Physical Education, 1950.
B.S., The Ohio State University, 1946; M.A. in Ed., The Ohio State University, 1947.
- JOHN A. REGER (1946)
Part-time Instructor in Music, 1946.
Musical Training: Trombone, Ilmari Ronka; Composition and Piano, Dr. L. W. Sprague.
- MAURICE RICHARD REICHARD, M.A. (1929)
Head of Department of Music, 1938; Associate Professor of Music, 1946.
A.B., University of Dayton, 1935; M.A., The Ohio State University, 1945.
- REV. GEORGE JOSEPH RENNEKER, S.M., M.A., ED.D. (1920)
Professor of Philosophy, 1924; President of the University, 1944.
A.B., University of Dayton, 1910; M.A., University of Dayton, 1915.
- LLOYD ALOYSIUS RENSEL, A.B. (1946)
Director of Guidance Center and Instructor in Psychology, 1946.
A.B., University of Dayton, 1943; Chief Examiner, Educational Testing Service, 1946.

KLARA REYST, PH.D. (1947)

Assistant Professor of French and German, 1947.

A.B., University of Geneva (Switzerland), 1908; M.Ed., University of Pittsburgh, 1934; Ph.D., University of Pittsburgh, 1940.

REV. EDMUND LEO RHODES, S.M., A.B., S.T.L. (1947)

Assistant Professor, 1948, and Acting Head of Department of Philosophy, 1951.

A.B., University of Dayton, 1934; S.T.L., The Catholic University of America, 1942.

WALTER ROEBUCK, M/SGT. (1952)

Assistant Instructor in Military Science and Tactics, 1952.

REV. RAYMOND AUGUST ROESCH, S.M., M.A. (1951)

Instructor in Psychology, 1951.

A.B., University of Dayton, 1936; M.A., The Catholic University of America, 1946.

WALTER A. ROESCH, S.M., B.S. IN L.S., M.A. (1946)

Assistant Librarian, 1946.

A.B., University of Dayton, 1947; B.S. in L.S., Western Reserve University, 1948; M.A., Western Reserve University, 1952.

LLOYD W. ROOT, A.B. (1949)

Assistant Professor of Physics, 1949.

A.B., Lawrence College (Appleton, Wis.), 1929.

ALBERT H. ROSE, S.M., M.A. (1945)

Head of Department, 1950, and Associate Professor of Political Science, 1951.

B.S., University of Dayton, 1927; M.A., Western Reserve University, 1942.

EITHEL ROSE, M.S. (1946)

Head of Department, 1949, and Associate Professor of Home Economics, 1950.

B.S., Indiana State Teachers College (Terre Haute, Ind.), 1928; M.S., Indiana State Teachers College, 1938.

LOUIS HERMAN ROSE, S.M., M.S., B.E.E. (1933)

Head of Department and Professor of Electrical Engineering, 1948.

B.S., University of Dayton, 1923; M.S., University of Fribourg (Fribourg, Switzerland), 1933; B.E.E., University of Dayton, 1935; Prof. Eng.

JUSTUS ROSENBERG, PH.D. (1946)

Assistant Professor of French and German, 1949.

Graduate of the Gymnasium in Danzig, 1938; Diplome de Civilisation francaise, University of Paris, 1939; Diplome d'Etudes francaises superieures, University of Paris, 1940; Licence es Lettres, University of Paris, 1946; Ph.D., University of Cincinnati, 1950.

FRANCIS HERMAN RUHLMAN, S.M., A.B., B.S. IN L.S. (1920)

Librarian, 1920.

A.B., University of Dayton, 1924; B.S. in L.S., Our Lady of the Lake College (San Antonio, Tex.), 1936.

THOMAS RYAN, M.A. (1950)

Part-time Instructor in Education, 1950.

A.B., University of Dayton, 1929; M.A., University of Dayton, 1940.

LOUIS ANTHONY SALETET, S.M., PH.D. (1936)

Head of Department, 1941, and Professor of Geology, 1942; Associate Dean, Head of the Division of Science, 1946.

B.S., University of Dayton, 1924; Ph.D., University of Fribourg (Fribourg, Switzerland), 1936.

MICHAEL J. SAVITSKI, B.E.E., M.MET.E. (1950)

Assistant Professor of Mechanical Engineering, 1950.

B.E.E., Rensselaer Polytechnic Institute, 1933; M.Met.E., Brooklyn Polytechnic Institute, 1950.

BERNHARD M. SCHMIDT, B.E.E. (1948)

Assistant Professor of Electrical Engineering, 1951.

B.E.E., University of Dayton, 1942.

KENNETH CHARLES SCHRAUT, PH.D. (1940)

Professor of Mathematics, 1948.

A.B., University of Illinois, 1936; M.A., University of Cincinnati, 1938; Ph.D., University of Cincinnati, 1940.

REEVES RICHARD SCHWARTZ, M.ED. (1946)

Head of Department, 1948, and Associate Professor of Physical and Health Education, 1951.

B.Ed., St. Cloud State Teachers College, 1934; M.Ed., University of Minnesota, 1940.

BLAZ Y. SCOTT, B.M.E. (1946)

Part-time Instructor in Mechanical Engineering, 1946.

B.M.E., University of Dayton, 1942.

GEORGE D. SEBENOLER, M/SGT. (1949)

Instructor in Military Science and Tactics, 1950.

HOPE PEARSON SELF, M.S. (1949)

Instructor in Home Economics, 1949.

B.S., East Tennessee State College, 1944; M.S., University of Tennessee, 1948.

ROBERT SHAIN, A.B. (1950)

Part-time Instructor in Business Organization, 1950.

A.B., The Ohio State University, 1940.

- EUGENE P. SMITH, WARRANT OFFICER, J.G. (1951)
Assistant Professor of Military Science and Tactics, 1951.
- BARTH J. SNYDER, J.D., M.A. (1935)
Associate Professor of Economics and Business Organization, 1946.
A.B., University of Dayton, 1931; J.D., University of Dayton, 1934; M.A., The Ohio State University, 1942.
- ATHANASE JOHN SOFIANOPOULOS, PH.D. (1949)
Professor of Chemical Engineering, 1949.
Ph.D., National University of Athens (Greece), 1909.
- GEORGE JAMES SPAHN, S.M., B.S., M.S. IN C.E. (1947)
Acting Head of Department, 1948, and Associate Professor of Civil Engineering, 1951.
B.S., University of Dayton, 1936; B.S. in C.E., The Catholic University of America, 1946; M.S. in C.E., Case Institute of Technology, 1947.
- JOHN A. SPEZZAFERRO, M.A. (1952)
Instructor in Physical and Health Education and Assistant Football Coach, 1952.
A.B., Heidelberg College (Tiffin, Ohio), 1947; M.A., Western Reserve University, 1950.
- DEE B. SPRINGER, M.A., C.P.A. (1946)
Associate Professor of Accounting, 1951.
A.B., Miami University (Oxford, Ohio), 1921; M.A., Columbia University, 1922.
- GEORGE HENRY SPRINGER, M.S. (1946)
Associate Professor of Geology, 1950.
A.B., Brown University, 1938; M.S. in Geology, Brown University, 1940.
- RICHARD CHARLES STEINER (1949)
Part-time Instructor in Business Organization, 1949.
- WILFRED J. STEINER, M.A. (1946)
Acting Head of Department, 1949, and Associate Professor of History, 1951.
A.B., Loras College, 1936; M.A., Harvard University, 1938.
- REV. BERNARD CLEMENT STUEVE, S.M., M.A. (1940)
Assistant Professor of Religion, 1944.
A.B., University of Dayton, 1929; M.A., The Catholic University of America, 1944.
- PAUL F. SWIFT, JR., M.S. IN CH.E. (1951)
Part-time Instructor in Mathematics, 1951.
B.Ch.E., University of Dayton, 1948; M.S. in Ch.E., University of Cincinnati, 1949.

- MICHAEL J. TARANTINO, B.S. (1947)
Assistant Professor of Chemistry, 1949.
B.S., St. Lawrence University (Canton, N. Y.), 1940.
- BETTY JEAN THOMAS, M.MUS. (1942)
Instructor in Music, 1949.
B.Mus., University of Dayton, 1944; M.Mus., Eastman School of Music (University of Rochester), 1950.
- RICHARD E. THOMPSON, B.M.E. (1951)
Part-time Instructor in General Engineering, 1951.
B.M.E., University of Cincinnati, 1949.
- HEWITT TONEY, M.A. (1950)
Part-time Instructor in Mathematics, 1950.
B.S., The Ohio State University, 1937; M.A., The Ohio State University, 1938.
- PAUL STORRS TOWNSEND, M.S. (1946)
Assistant Professor of Physics, 1949.
B.S. in Engineering, University of Michigan, 1941; M.S., University of Michigan, 1950.
- JOSEPH FRANCIS UPDYKE, B.S. (1947)
Assistant Professor of Accounting, 1951.
B.S., University of Dayton, 1947.
- B. BERNARR VANCE, M.A. (1940)
Assistant Professor of Biology, 1940.
B.S., Miami University (Oxford, Ohio), 1930; M.A., Miami University, 1936.
- JOHN F. VERDER, S.M., A.B., B.S. IN L.S. (1946)
Assistant Librarian, 1948.
A.B., University of Dayton, 1929; B.S. in L.S., Western Reserve University, 1946.
- PAUL B. WARD, M.S. (1948)
Assistant Professor of Chemistry, 1948.
B.S., University of Notre Dame, 1932; M.S., University of Notre Dame, 1936.
- ANDREW RAYMOND WEBER, S.M., B.S., M.M.E. (1927)
Professor of Mechanical Engineering, 1942.
B.S., University of Dayton, 1919; B.M.E., University of Dayton, 1927; M.M.E., The Catholic University of America, 1936; Prof. Eng.
- ROY WILLIAM WEHMANEN, M.ED. (1946)
Assistant Professor of General Engineering, 1949.
B.S., Northern Michigan College of Education, 1939; M.Ed., Wayne University, 1952.

- J. ALBERT WEHRLE, S.M., PH.D. (1920)
Professor of Electrical Engineering, 1943; Dean of the College of Engineering, 1948.
B.S., University of Dayton, 1912; M.E.E., University of Pittsburgh, 1927; Ph.D., University of Pittsburgh, 1930; Prof. Eng.
- WILLIAM OTTO WEHRLE, S.M., PH.D. (1933)
Professor of English, 1933, and Head of Department, 1936.
A.B., University of Dayton, 1918; M.A., The Catholic University of America, 1931; Ph.D., The Catholic University of America, 1933.
- GEORGE H. WELDON, M.L., M.A. (1952)
Part-time Instructor in English and Philosophy, 1952.
A.B., Mount St. Mary's College (Emmitsburg, Md.), 1942; M.L., Register College of Journalism (Denver, Colo.), 1948; M.A., University of Denver, 1949.
- ADRIAN JOSEPH WESTBROCK, M.S., M.M.E. (1946)
Assistant Professor of Mechanical Engineering, 1948.
B.S. in M.E., Indiana Technical College, 1943; M.S. of Automotive Engineering, Chrysler Institute of Engineering, 1945; M.M.E., University of Delaware, 1951.
- JEROME WESTENDORF, B.S. (1951)
Part-time Instructor in Accounting, 1951.
B.S., University of Dayton, 1943.
- CHARLES WHALEN, M.B.A. (1951)
Part-time Instructor in Business Organization and Economics, 1951.
B.S., University of Dayton, 1942; M.B.A., Harvard University, 1946.
- REGINA KATHLEEN WHETRO, M.A. (1947)
Assistant Professor of English and Dean of Women, 1951.
A.B., University of Dayton, 1943; M.A., University of Michigan, 1950.
- ROBERT CHARLES WIECHMAN, M.T., M.S. (1946)
Assistant Professor of Biology, 1949.
B.S., Indiana University, 1943; M.T., St. Joseph's Hospital (Phoenix, Ariz.), 1944; M.S., Miami University (Oxford, Ohio), 1951.
- H. H. WILLIAMS, M.D. (1940)
Lecturer in Biology, 1940.
M.D., The Ohio State University, 1917.
- ROBERT WAYNE WILLIAMS, A.B., M.B.A. (1949)
Part-time Instructor in Business Organization, 1951.
A.B., Indiana University, 1948; M.B.A., Indiana University, 1949.
- EDITH WOESTE, R.N., B.S. (1948)
Instructor in Nursing Education, 1948.
B.S., University of Dayton, 1948.

WILLIAM JOSEPH WOHLLEBEN, S.M., PH.D. (1909)

Head of Department and Professor of Chemical Engineering, 1909.

B.S., University of Dayton, 1904; M.S., University of Fribourg (Fribourg, Switzerland), 1906; Ph.D., University of Fribourg, 1908.

ALBERT WILLIAM WOTRING, M.S. (1951)

Part-time Instructor in Physics, 1951.

B.S., State College of Washington (Pullman, Wash.), 1944; M.S., University of Washington (Seattle, Wash.), 1948.

VINCENT JOHN WOTTLE, S.M., PH.D. (1938)

Associate Professor, 1944, and Acting Head of Department of Chemistry, 1950.

B.S., University of Dayton, 1930; M.S., The Catholic University of America, 1937; Ph.D., The Ohio State University, 1951.

HAROLD E. WRIGHT, B.M.E. (1949)

Part-time Instructor in Mechanical Engineering, 1951.

B.M.E., University of Dayton, 1949.

VERYL L. ZECH, M.MUS. (1940)

Assistant Professor of Music, 1951.

B.Mus., University of Dayton, 1948; M.Mus., Cincinnati Conservatory of Music, 1951.

MARIANNA ZIMMERMAN, R.N., B.S. (1945)

Assistant Professor of Nursing Education, 1949.

B.S., Indiana University, 1930.

CARTHAGENA DIVISION

Faculty

VERY REV. LIONEL E. PIRE, C.P.P.S., Rector

Pastoral Theology

REV. HERBERT L. LINENBERGER, C.P.P.S., J.C.D., Vice-Rector

Canon Law, Sacramental Moral

J.C.L., The Catholic University of America, 1945; J.C.D., The Catholic University of America, 1949.

REV. EDMUND L. BINSFELD, C.P.P.S., M.A. IN L.S., Librarian

M.A. in L.S., Rosary College Library School, 1951.

REV. ALOYS H. DIRKSEN, C.P.P.S., S.T.D.

Ancient History, Sacred Scripture, Sacramental Dogma

S.T.L., The Catholic University of America, 1928; S.T.D., The Catholic University of America, 1932.

REV. MARK L. DORENKEMPER, C.PP.S., S.T.D.

Fundamental Dogma, Sacramental Theology

S.T.L., University of Fribourg (Fribourg, Switzerland), 1949; S.T.D., University of Fribourg, 1951.

REV. LEO J. GAULRAPP, C.PP.S., M.A.

Speech, Homiletics, Music

M.A., University of Michigan, 1950.

REV. AMBROSE J. HEIMAN, C.PP.S., L.M.S., PH.D.

Philosophy, Dogmatic Theology

M.A., University of Toronto, 1942; L.M.S., Pontifical Institute of Medieval Studies, 1947; Ph.D., University of Toronto, 1949.

REV. FREDERICK J. HUNNEFELD, C.PP.S. Absent on leave.

REV. PAUL J. KNAPKE, C.PP.S., S.T.D.

Church History

S.T.L., The Catholic University of America, 1936; S.T.D., The Catholic University of America, 1939.

REV. GEORGE J. LUBELEY, C.PP.S., S.T.L.

Moral Theology, Liturgy

S.T.L., University of Fribourg (Fribourg, Switzerland), 1947.

REV. HENRY A. LUCKS, C.PP.S., PH.D.

History of Philosophy, Education

M.A., The Catholic University of America, 1934; Ph.D., The Catholic University of America, 1936.

REV. OTHMAR F. MISSLER, C.PP.S., A.B., *Spiritual Director*

Ascetical Theology

A.B., St. Joseph's College, 1940.

REV. EDMUND J. RYAN, C.PP.S., PH.D., *Dean of Studies*

Psychology, Philosophy

M.A., The Catholic University of America, 1945; Ph.D., University of St. Louis, 1951.

REV. ROBERT T. SIEBENECK, C.PP.S., S.T.L., SS.L.

Sacred Scripture, Fundamental Moral

S.T.L., University of Fribourg (Fribourg, Switzerland), 1949; SS.L., Pontifical Biblical Institute, 1951.

REV. EDWARD F. SIEGMAN, C.PP.S., S.T.D. Absent on leave.

S.T.L., The Catholic University of America, 1935; S.T.D., The Catholic University of America, 1939.

REV. ALFRED J. ZANOLAR, C.PP.S., M.S.

Ascetical Theology

M.S., The Catholic University of America, 1935.

DAYTON ART INSTITUTE

*Faculty*ESTHER I. SEAVER, *Director*EDWARD R. BURROUGHS, *Dean*HELEN PINKNEY, *Librarian*ANN DEETER, *Registrar*

EDWARD R. BURROUGHS	MILTON MYERS
RICHARD W. CLARK	ALVIN RAFFEL
IRENE HOFFMAN	MARTHA K. SCHAUER
MARGARET HOWLAND	ESTHER I. SEAVER
JOHN M. KING	READ VIEMEISTER
ROBERT KOEPNICK	FLORENCE WAGNER

GOOD SAMARITAN HOSPITAL

Faculty

Diagnostic Laboratories

HENRY CAES, B.S., M.D., F.A.S.C.P., *Head*

SISTER CECILE, B.S., M.T.	H. R. WALTER, B.S., M.T.
LENORE COLDIRON, M.T.	MYRA HOOVER WRIGHT, B.S., M.T.

MIAMI VALLEY HOSPITAL

Faculty

Diagnostic Laboratories

MELVIN OOSTING, A.B., M.D., F.A.S.C.P., *Head*

PATRICIA AYLSTOCK, B.S., M.T.	PATRICIA FAHEY, B.S., M.T.
LEONA BINKLEY	EUNICE FRAZIER, M.A., M.T.
DOROTHY BITTLE, B.S., M.T.	SUZANNE HAENZI, B.S., M.T.
LIDA MAY CAMPBELL, A.B., M.T.	DORIS PEDEN, A.B., M.T.
ANNA LEE WALDO, B.S., M.S.	

ST. ELIZABETH HOSPITAL

Faculty

Diagnostic Laboratories

WILLIAM ABRAMSON, A.B., M.D., F.A.S.C.P., *Head*

SR. M. ELIZABETH, S.P.S.F., R.N., B.S., M.T.	JOAN LOGEL, B.S., M.T.
PATRICIA HUSSEY, B.S., M.T.	JAMES MARION, B.S., M.T.
JESABEL LINSOTT, B.S., M.T.	LIESEL MEHRFORT, B.S., M.T.

VETERANS ADMINISTRATION HOSPITAL

Faculty

Diagnostic Laboratories

ALDEN S. THOMPSON, B.S., M.D., F.A.S.C.P., *Head*

RUBY S. HIROSE, PH.D.

SUE CASSELL STEVENS, PH.D.

ELSPETH F. MCCALLUM, A.B.

GENERAL INFORMATION

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HISTORICAL NOTE

IN 1849 THERE came from their native France a group of educators belonging to the religious organization founded by Reverend William Joseph Chaminade and known as the Society of Mary. At Dayton, Ohio, this pioneer band found the present suitable site for establishment of an institution of learning. At that time they purchased from Mr. John Stuart the section known as the Dewberry Farm, comprising one hundred and twenty acres, and at once opened a school in the farm house located on the property. From these humble beginnings the school grew rapidly under the guidance of Brother Maximin Zehler. Urgent needs made necessary the sale of part of this extensive property, leaving a campus of fifty-six acres.

In 1878 this institution was incorporated, and in 1882, by an act of the general assembly of the State of Ohio, it was empowered to confer degrees under the title of St. Mary Institute. After 1912 it was called St. Mary College and continued to be so designated till 1920, when it was raised to the rank of University. Realizing the demands for higher education, the University established night classes in 1920 and summer sessions in 1923. These two projects were opened to men and women and from the beginning were well received. In 1935 the day school, formerly restricted to men, offered to women also the facilities of full-time students.

The University offers courses in Arts, Science, Engineering, Business Administration, Education, Pre-Medicine, and Pre-Law. Journalistic, forensic, musical, and athletic programs are also sponsored by the University under the supervision of the faculty.

EDUCATIONAL AIMS

THE UNIVERSITY OF DAYTON proposes as general objective the complete and harmonious development of all the capacities of man's nature—religious, moral, intellectual, aesthetic, social, and physical. Participation in the widely-varied college activities induces the student to exercise all these powers of soul and body. Moral instruction and adequate campus discipline emphasize the importance of personality development and character formation, while a comprehensive academic program furnishes ample fields of study. Thus college becomes not only a preparation for life, but an integral part of life itself.

The particular objectives are threefold: to give the student a liberal education by training in the natural and social sciences, language, and literature; to prepare for prospective careers in business, art, music—for the professions of teaching and engineering and for professional schools of law, medicine, and dentistry; to establish, in all divisions, a strong sense of social responsibility—to foster leadership both by the theory and the practice of sound principles of religion, philosophy, sociology, economics, and political science.

ACCREDITATION

THE UNIVERSITY OF DAYTON is officially recognized by the following accrediting agencies:

1. The North Central Association of Colleges.
2. The National Catholic Educational Association.
3. The Ohio Association of Colleges.
4. The Pre-Medical course is accredited by the American Medical Association.
5. The Departments of Civil, Electrical, and Mechanical Engineering are accredited by the Engineers' Council for Professional Development.

EDUCATION OF VETERANS

ALL DEPARTMENTS of the University have been approved by the Veterans Administration for training under both the Servicemen's Readjustment Act of 1944 (G. I. Bill of Rights) and the Vocational Training Act. Credits earned during military service are accepted after an evaluation in terms of the University's standards and the course of study for which the veteran applies. An adequate counseling service is available under the direction of the Veterans' Adviser, whose office is located in Room 113, St. Mary Hall.

CAMPUS AND BUILDINGS

THE UNIVERSITY OF DAYTON is situated within the corporate limits of the city of Dayton. It is located in the southern section of the city, approximately three miles from the center of town.

The quiet of the surroundings is conducive to serious study, while at the same time the location affords easy access to the social, business, and industrial interests of the city.

The University campus has for its center the beautiful Chapel of the Immaculate Conception.

The buildings devoted to academic work are: St. Mary Hall, including Administration, Business and Science; Chaminade Hall, including Arts, Education, and Science; St. Joseph Hall, including Civil, Electrical, and Mechanical Engineering; Chemistry Buildings, including Chemical Engineering; Business Administration Building; Field House; Mechanical Engineering Building; Music Building; ROTC Building.

The Albert Emanuel Library, the general library of the campus, was erected in 1928 through the generosity of Victor C. Emanuel, an alumnus of the University, who dedicated this building as a monument to the honor of his father. This library of 55,000 volumes of books and 21,000 volumes of periodicals is equipped with all modern facilities to supplement the regular class work of the student. Special collections are housed in seven departmental libraries to facilitate service to faculty and students.

Adequately equipped laboratories are available for experimental work in the different departments: Biology, Botany, Zoology, Physics, Mineralogy and Geology laboratories in St. Mary Hall; Electrical Engineering laboratories in St. Joseph Hall; Civil and Mechanical Engineering laboratories in the Mechanical Engineering laboratory building; the Chemical and Chemical Engineering laboratories in the Chemistry buildings; Psychological and Home Economics laboratories in Chaminade Hall.

ADMISSION

ADMISSION OF STUDENTS

ANYONE DESIRING admission is required to file a written application. For admission to a freshman class the applicant must present a satisfactory high school record. This application for admission and high school record must be on forms supplied by the Director of Admissions. For advanced standing an applicant must see that the last institution attended sends an official transcript of credits together with a statement of honorable dismissal. A student is allowed to register only after all credentials have been received and evaluated and a registration permit has been issued.

The specific high school units required for admission to a freshman class are defined in the requirements of the various divisions of the College of Arts and Sciences and the College of Engineering. Freshman students in all divisions and transfer students in Engineering and Business Administration are obliged to take a battery of psychological tests.

The University does not have dormitory accommodations for women. Women under twenty-one years of age are not accepted as students in the day classes unless they are residing with parents or close relatives in Dayton.

HEALTH SERVICE

A THOROUGH physical examination is part of the admission procedure of every student. Records are kept by the Registrar's office. When deemed advisable, students and parents or guardians are given copies. A follow-up is made at regular intervals. An infirmary is maintained with a registered nurse in attendance. The services of outstanding physicians as well as the facilities of three hospitals are available to students.

GUIDANCE CENTER

THE GUIDANCE CENTER, located in the basement of the Albert Emanuel Library, is staffed by seven experienced counselors and psychometrists. The Center offers psychological testing services and vocational counseling to the following groups:

- a) Veterans;
- b) Students of the University enrolled in either Day or Evening Classes;

- c) High school students seeking guidance, especially in view of preparing for some particular college course;
- d) Individuals directed to the Center by various industrial organizations;
- e) High schools and elementary schools that request the administration of a battery of psychological tests.

The Center is open from 8:00 a.m. to 4:30 p.m. every day, excepting Saturday and Sunday. Appointments may be made by telephone.

CURRICULUM

THE UNIVERSITY comprises the undergraduate College of Arts and Sciences and the College of Engineering.

COLLEGE OF ARTS AND SCIENCES

THE COLLEGE OF ARTS AND SCIENCES is made up of the Divisions of Arts, Business Administration, Education, and Science.

In the Division of Arts are the Departments of Art, Classical Languages, English (containing courses in Journalism), History, Modern Languages, Music, Philosophy, Political Science, Psychology, Religion, Sociology, and Speech. This Division includes pre-professional courses in law, social service, foreign service, and journalism. Affiliation of the Dayton Art Institute with the University makes it possible for students to work for the Fine Arts degree. Affiliation of the Dayton Junior Philharmonic Orchestra with the University provides music students with the opportunity for valuable musical practice and experience.

The Division of Arts at Carthage, Ohio, was established in September, 1949. Enrollment in this Division is limited to members of the Congregation of the Most Precious Blood. The names and degrees of faculty members are included in this bulletin.

The Division of Business Administration includes the Departments of Accounting, Business Organization (containing courses in Retailing), Economics, and Secretarial Studies.

The Division of Education prepares teachers for both elementary and secondary levels. There are two Departments in the Division: Education, and Physical and Health Education.

The Division of Science has pre-professional courses in medicine and dentistry. In cooperation with St. Elizabeth Hospital, Good Samaritan Hospital, Miami Valley Hospital, and The Veterans Administration Hospital, courses are given in Medical Technology; in cooperation with St. Elizabeth Hospital and Miami Valley Hospital, courses are given in Radiological Technique. The Division of Science includes the following Departments: Biology, Chemistry, Geology, Home Economics, Mathematics, Medical Technology, Nursing Education, Physics, and Radiological Technique.

COLLEGE OF ENGINEERING

THE COLLEGE OF ENGINEERING includes Departments in Chemical, Civil, Electrical, Industrial, and Mechanical Engineering.

RELIGION

FOUR CREDIT HOURS in religion are required of Catholic students for each of the freshman and sophomore years. In the junior and senior years, there are elective courses in religion which are open to all students.

For non-Catholic students there are prescribed courses in Logic and Philosophical Psychology to replace courses in religion.

RESERVE OFFICERS' TRAINING CORPS

THE DEPARTMENT OF MILITARY SCIENCE AND TACTICS specializes in the Infantry component of the Army of the United States, together with those general subjects applicable to all components of the Department of the Army. Instruction is presented by the military staff under the Professor of Military Science and Tactics.

The ROTC Course is divided into Basic and Advanced. All male non-veterans who are physically qualified and who have not already completed the Basic Course or its equivalent are enrolled in Basic Military during their freshman and sophomore years. Service in the Armed Forces of the United States may be substituted for part or all of the Basic Course. Admission into the Advanced Course is on an optional-selective basis, requiring the approval of the President of the University and the Professor of Military Science and Tactics.

The objective of the course is to qualify students for positions of leadership in time of national emergency, under the National Defense Act, and to produce junior officers who are capable of further progressive development as officers in a component of the Army of the United States. Their education and their position in civil life make it appropriate that they have parallel training to fit them for leadership in the armed services.

Students enrolled in Military Science and Tactics are organized into a Regiment of Infantry. This regiment is commanded and staffed by selected cadet officers and non-commissioned officers.

Completion of the Advanced Course opens the way for commission as second lieutenant, Infantry Regular Army, or Infantry Reserve, in one of the following categories: (1) Distinguished Military Students may apply for Regular Army Commission in any chosen branch; (2) other graduates may elect to serve two years of active duty, of which one year is competitive, with successful competitors receiving a permanent commission in the Regular Army; or (3) graduates may elect to hold a commission in the Infantry Reserve. A Distinguished Military Student is a student designated by the Professor of Military Science and Tactics who:

a. Possesses outstanding qualities of military leadership, high moral character, and definite aptitude for the military service;

b. Has distinguished himself either academically or by demonstrated leadership through his accomplishments while participating in recognized campus activities; and

c. Is scheduled to complete the Advanced Course, senior division, ROTC, within one school year, and whose current standing in military subjects is among the upper third of his ROTC class.

Selected first and second year basic students and all Advanced Course students are deferred from induction as long as they remain in good standing in their academic and military courses, provided they sign an agreement (1) to complete the Basic Course, if enrolled therein; (2) to enroll in and complete the Advanced Course at the proper time, if accepted therefor; (3) upon completion or termination of the course of instruction therein, to accept a commission, if tendered; (4) to serve on active duty for a period of not less than two years after receipt of such commission; and (5) to remain a member of a Regular or Reserve component of the Army until the eighth anniversary of receipt of commission unless sooner terminated.

All ROTC students are issued officer-type uniforms and appropriate insignia. Students accepted for Advanced ROTC receive commutation of Subsistence in cash each month amounting to approximately \$27.00. Each Advanced Course student must attend one Summer Camp of about six weeks' duration, during which he receives \$75.00 per month and travel expenses.

Completion of the Basic Military course is required of qualified male students as a prerequisite for graduation; enrollment in the Advanced Course makes completion of the course a prerequisite for graduation.

ACADEMIC REQUIREMENTS

REQUIREMENTS FOR DEGREES

FOR THE DEGREE of *Bachelor of Arts* or *Bachelor of Science*, a minimum of one hundred and twenty-eight credit hours are required. These credits must be distributed over eight semesters in point of time. A student may carry an average of sixteen credit hours per semester.

A credit hour denotes a semester course taken one hour a week as a class period or two or three hours per week as a laboratory period.

One major and two minors are required. Ordinarily, the prerequisites for any major or minor must be satisfied in the first two years. In some cases, however, sophomore courses may be counted towards a major or minor. Any major or minor consists of certain required and elective courses as described under the respective divisions and departments. A comprehensive examination in the major field may also be required.

Requirements for the different degrees are listed under the various Divisions.

For degree of *Bachelor of Chemical, Civil, Electrical, Industrial or Mechanical Engineering*, one of the prescribed groups of courses in any of these Departments must be completed as specified under the College of Engineering.

One year of residence or thirty semester hours—ordinarily the senior year—is a requirement for any bachelor degree.

In addition to the above requirements, a cumulative quality-point-average of 1.70 is required in order to register in succeeding semesters.

GRADES AND SCHOLARSHIP

AT MID-SEMESTER and at the end of a semester, a report of every student in each of his classes is given to the Registrar by the instructor in the official marks. Copies of these reports are given to the students and deans and are sent to the parents or guardians. At mid-semester, these marks are merely tentative and represent the progress made by the student. The final academic standing is determined only at the end of the semester.

The official marks with their meanings and quality point values are as follows:

A—Excellent.....	4 quality points*
B—Good.....	3 quality points*
C—Fair.....	2 quality points*
D—Passing.....	1 quality point *
WP—Withdrew, Passing.....	0 quality point
WF—Withdrew, Failing.....	0 quality point
F—Failed.....	0 quality point
I—Incomplete.....	0 quality point

**For each credit allowed for the course.*

In computing the quality-point-average, a course for which a WP is received is not included; a course for which a WF is received is included in the same manner as one for which an F is received.

A grade of F is recorded whenever a student fails to report a withdrawal from a course.

A grade of I may be given at the discretion of the instructor to any student who, for reasons beyond his control, has not completed some portion of the work of the term, provided that the rest of the work has been of satisfactory grade. An I must be removed within the following semester or it will be changed to F.

CHANGES AND WITHDRAWALS

WHEN A STUDENT finds it necessary to change from one class to another or to withdraw from a class for any reason whatsoever, it is important that he notify his Dean immediately. Financial adjustments, if allowed, will be made **ONLY FROM THE DATE OF NOTIFICATION**. Veterans especially should report any such changes or withdrawals promptly, since the amount of time to which they are entitled under Public Laws 346 and 16 is affected by their entrance and withdrawal dates.

EXPENSES

THE TRUSTEES of the University of Dayton reserve the right, at any time, to

change the regulations of the University, including those concerning fees and the manner of payment, and to make such changes in the curriculum as they deem advisable.

The expenses indicated below are for each term of the 1952-1953 scholastic year, unless otherwise stated. During the refund period of five weeks from the first day of registration, tuition charges will be made according to the following scale:

One week or less	20%
Between one and two weeks	20%
Between two and three weeks	40%
Between three and four weeks	60%
Between four and five weeks	80%
Over five weeks	100%

FULL-TIME STUDENTS:

A student with an academic schedule of twelve semester hours is considered a "full-time" student. With this status, he is entitled to the benefits of the various activities.

Matriculation fee, payable once, at entrance.....	\$ 10.00
Orientation and placement services, payable once, at entrance.....	10.00
Tuition, per credit hour.....	12.00
Deposit on uniform for fall and winter terms, for students taking Basic Military Training, returnable	20.00
Laboratory fee, for each laboratory (variations depending upon the course). Average fee	7.50
Laboratory breakage deposit for Chemistry laboratory (variations de- pending upon the course)	5.00-10.00
For campus students:	
Room (seven days a week), meals (Mondays through Fridays), and laundry	295.00-320.00
(Tickets for one or more Saturday and Sunday meals may be pur- chased on Fridays.)	
Room and laundry only	135.00-160.00
Teacher training fee (Seniors in Education) per credit hour.....	6.00

PART-TIME STUDENTS:

Matriculation fee, payable at first registration	5.00
Registration fee, payable in succeeding terms	1.00

SPECIAL STUDENTS:

THE TERM "special" or "non-matriculated" is applied to those students who are not following a degree program. Part-time students, including those working toward a degree, are, at the discretion of the respective Deans, assimilated to this category. The status of the student may exempt him from the requirement of attendance at some convocations, but has no bearing on the expenses outlined above.

REMARKS:

A STUDENT may not register for a new term, a transcript of credits will not be issued, the honors of graduation will not be conferred, unless accounts with the University have been satisfactorily settled.

Tuition is payable in full at the time of registration. Students who arrange to pay in installments are required to pay a moderate carrying charge.

An additional fee of \$5.00 will be charged for late registration, beginning with the first day of classes.

Books and stationery may be purchased at the University Book Store.

The University is not responsible for any money or valuables which are not deposited with the Treasurer.

Those in charge of organizations and activities approved by the University are required to deposit all funds with the Treasurer of the University.

All drafts and checks should be made payable to the University of Dayton.

The University dining hall and dormitories are closed during the Christmas Holidays and other extensive vacations. With the permission of the Dean of Students, these facilities may be used. The charge for room (seven days a week), meals (Mondays through Fridays), and laundry at such times is \$16.50 per week.

The average charge for proficiency and other special examinations is five dollars.

HONORS AND AWARDS

AWARDS AND HONORS for scholarship are announced on Honors Day, or at the annual Commencement.

Degrees will be conferred "With Honors" if the student has been awarded the Alpha Sigma Tau Honor Key.

The *Alpha Sigma Tau Honor Key* is awarded to seniors who have a point average for seven semesters, at the University, of 3.5 based on 4.0. The Alpha Sigma Tau is the Honor Society of the University. These seniors are eligible for membership in the Lambda Chapter of the Delta Epsilon Sigma National Honor Society.

A cumulative point hour ratio of at least 3.0 is required for any award or honor.

The following Awards are given annually through the generosity of donors:

The Victor Emanuel, '15, in memory of Mrs. Albert Emanuel, Awards of Excellence in the Senior and Junior Chemical Engineering Classes.

The Harry F. Finke, '02, Award of Excellence in the Senior Civil Engineering Class.

The Mrs. J. Edward Sweetman, in memory of Mr. J. Edward Sweetman, Award of Excellence in the Junior Civil Engineering Class.

The Anthony Horvath and Elmer Stegert Award of Excellence in the Senior Electrical Engineering Class.

The Mrs. Louise A. and Mrs. Lucille Hollenkamp, in memory of Bernard F. Hollenkamp, Award of Excellence in the Senior Mechanical Engineering Class.

The Martin C. Kuntz, '12, Award of Excellence in the Junior Mechanical Engineering Class.

The Charles Huston Brown, in memory of Brother William Haebe, Award of Excellence in the Senior Class of Business Organization.

The President's Award of Excellence in Debating.

The Mathematics Club Alumni Awards of Excellence in the Junior and in the Senior Classes.

The Rev. Charles Polichek Awards—first and second—of Excellence in Philosophy. Only Seniors are eligible.

The Miami Valley Alumnae (Sorosis) Award of General Excellence in both academic and extracurricular activities. Only Senior women are eligible.

The Phi Alpha Theta Scholarship Key, awarded on the basis of excellence in the study of History. Eligibility is restricted to Senior members of Delta Eta Chapter.

GRADUATE RECORD EXAMINATION

A LARGE NUMBER of Graduate Schools in the United States and Canada recommend, and some require, that the results of the examinations prepared as a project of the Carnegie Foundation for the Advancement of Teaching be submitted as one of the credentials for admission. The University of Dayton is a center for the administration of these tests.

Information and applications can be procured at the University of Dayton Guidance Center or The Graduate Record Examination, Educational Testing Service, P. O. Box 592, Princeton, New Jersey.

EXTRACURRICULAR ACTIVITIES

ADMINISTRATIVE: Student Council; Student Senate; Central Women's Organization.

RELIGIOUS: National Federation of Catholic College Students; Sodality of the Immaculate Conception; Catholic Students Mission Crusade; Chapel Choir.
ACADEMIC: Alpha Sigma Tau Honor Society; Business Organization and Economics Club; Society for Advancement of Management; Alpha Psi Omega; University Players; Education Club; Mechanical Engineering Society; Electrical Engineering Society; Student Chapter of the American Society of Civil Engineers; History Club; Exponent; Daytonian; University of Dayton News; The National Mathematics Honor Society of Secondary Schools; Mathematics

Club; Mixed Chorus; Men's Glee Club; Junior Philharmonic Orchestra; Band; Philosophy Club; Psychology Club; Sigma Delta Pi; Geology Club; Chemistry Club; Home Economics Club; Nu Epsilon Delta Society; Sociology Club; Upsilon Delta Sigma Debaters.

MILITARY: Pershing Rifle Club; Scabbard and Blade; Rifle Team.

ATHLETIC: The Monogram Club; Women's Athletic Association.

SOCIAL: Flyers Hangar; Spirit Committee; Blue Grass Club; Clevelanders' Club; Toledo Club; Hui of Hawaii.

GENERAL: Red Cross College Unit; Mother's Club.

Each of the organizations listed has been approved and placed under the direction of a faculty moderator.

CHILDREN'S THEATRE

A YEAR-ROUND children's theatre of training classes and productions is sponsored by the University Players. Children from age five through eighteen are enrolled. Classes and rehearsals are held in the Student Union Building and are conducted by Mrs. Annette S. Anduze, Assistant Director of the University Players.

College of Arts and Sciences

1. DIVISION OF ARTS AND PRE-PROFESSIONAL COURSES.
2. DIVISION OF BUSINESS ADMINISTRATION.
3. DIVISION OF EDUCATION.
4. DIVISION OF SCIENCE AND PRE-PROFESSIONAL COURSES.
5. COURSES OF INSTRUCTION.

DIVISION OF ARTS

THE DIVISION OF ARTS has as a function to provide the fundamentals of a liberal education. Among the broad objectives to be served by such a type of education are the following: to enrich the student's cultural background; to stimulate intellectual activity; to educate for satisfactory social adjustment; to develop capacities for leadership. The University regards as a special feature of its educational program the training given to all of its students in the field of philosophy in order to achieve the objectives of life integration, character formation and responsible citizenship. In particular, students registered in the Division of Arts are required to take at least a minor in philosophy in view of the role philosophical principles play in effective thinking, speaking, writing, and living.

In its curriculum, the Division of Arts aims to furnish special preparation for various professions such as education, art, music, law, journalism, social service, personnel administration, foreign service, as well as the more comprehensive forms of business and industrial activity. It also seeks to prepare students for study on the graduate level.

For admission to the Division of Arts a student must be a graduate of an accredited high school, with a total of not less than 15 units, and, in the judgment of the Committee on Admissions, qualified to pursue the course of his selection.

Catholic students are required to follow the courses in religion as prescribed for the freshman and the sophomore year. Non-Catholic students are required to take the courses in Logic and Philosophical Psychology.

For the A.B. degree, the University of Dayton sets down the following requirements: (Lower Division) Religion or Philosophy 8 credit hours, English 9 credit hours, Speech 3 credit hours, History 12 credit hours, foreign language 12 credit hours, natural science or mathematics 6-8 credit hours, Psychology 3 credit hours, Sociology 3 credit hours; (Upper Division) a major 24 credit hours, two minors 12 credit hours each. When Philosophy is not elected as the major, it must be taken as one of the minors.

The junior and senior years are generally devoted to study in the major and minor fields. Subjects which may count towards the major or minor are listed in the catalogue as 300 and 400 courses and designated as upper division courses. Normally 64 of the 128 credit hours required for graduation must be on the upper level. Departments offering majors are: Art, Classical Languages, Economics, English, History, Modern Languages, Mathematical Statistics, Music, Philosophy, Political Science, Psychology, Religion, Sociology, and Speech.

PRE-PROFESSIONAL COURSES

THE SCHEDULE should be drawn up with a view to preparation for a particular profession which the student may have in mind. Hence it is imperative that the student consult the dean so as to receive the proper educational guidance.

Students contemplating the legal profession can generally satisfy the requirements of Schools of Law by following the curriculum prescribed for the Division of Arts or the Division of Business Administration. Information as to specific requirements should be secured from the particular School of Law which the student desires to enter. Ordinarily ninety credit hours will admit to law school; in particular instances, a bachelor's degree is required.

For foreign service, a curriculum, similar to that of pre-legal students, should be followed with special emphasis on foreign languages and political science.

Two years of college study are required for admission to the first year of Philosophy in diocesan seminaries. During these years stress should be placed upon English, the classical and the modern foreign languages.

In the fields of social service and public administration, there is a great demand for trained personnel. The bachelor's degree is required for admission to a recognized School of Social Work. The undergraduate curriculum should include courses in biology, economics, philosophy, political science, psychology, religion, sociology, and statistics.

GENERAL REQUIREMENTS FOR THE A. B. DEGREE

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Mil. 101 First Yr. Basic Course	1½	Mil. 102 First Yr. Basic Course	1½
Phe. 101 Physical Education	½	Phe. 102 Physical Education	½
Phe. 103 Health	½	Phe. 104 Health (women)	½
Spe. 101 Fund. of Eff. Speaking	3	Eng. 101 English Composition	3
Hist. 111 Hist. of Mod. Europe	3	Hist. 112 Hist. of Mod. Europe	3
Language	3	Language	3
#Mathematics or Science	3-4	#Mathematics or Science	3-4
Or. 101 Orientation	0		

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Mil. 201 Second Yr. Basic Course ..	1½	Mil. 202 Second Yr. Basic Course ..	1½
Phe. 201 Phys. Educ. (women)	½	Phe. 202 Phys. Educ. (women)	½
Eng. 221 English Literature	3	Eng. 222 American Literature	3
Psych. 201 Introd. Psychology	3	Soc. 201 General Sociology	3
Hist. 251 Amer. Hist. to 1865	3	Hist. 252 Amer. Hist. since 1865 ..	3
Language	3	Language	3
Elective	2-3	Elective	2-3

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Major Field	6	Major Field	6
Philosophy*	3	Philosophy*	3
Second Minor	3	Second Minor	3
Electives†	3-6	Electives†	3-6

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Major Field	6	Major Field	6
Philosophy*	3	Philosophy*	3
Second Minor	3	Second Minor	3
Electives†	3-6	Electives†	3-6

#If Psychology is chosen as the major field, the freshman science must be Bio. 101-102, followed by Bio. 203-204 in the sophomore year.

*If Philosophy is chosen as the major field, it is replaced by another field as the first minor.

†Electives must be selected from 300-400 courses.

SPECIAL PROGRAMS IN THE DIVISION OF ARTS

PROGRAM I

BACHELOR OF FINE ARTS

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Eng. 101 English Composition	3	Spe. 101 Fund. of Eff. Speaking	3
Art At Art Institute	10	Art At Art Institute	10

Summer Session

Art At Art Institute.....6

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Eng. 221 English Literature, or	3	Hist. 112 Hist. of Mod. Europe, or	3
Eng. 222 American Literature	3	Hist. 252 Amer. Hist. since 1865	3
Art At Art Institute	10	Art At Art Institute	10

Summer Session

Art At Art Institute.....6

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Phil. 300-400 Philosophy	3	Phil. 300-400 Philosophy	3
Psych. 201 Introductory Psych.	3	Soc. 201 General Sociology	3
Art At Art Institute	9	Art At Art Institute	9

Summer Session

Art At Art Institute.....5

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Art At Art Institute	15	Art At Art Institute	15

1. For the degree of Bachelor of Fine Arts, a minimum of 137 hours is required. Of these, 105 hours must be in Art and related courses. Thirty-two hours must be in academic subjects according to the curriculum suggested.
2. To complete the required course of studies, it will be necessary to distribute the program over four years and three summer sessions or five years with no summer sessions.

PROGRAM II

BACHELOR OF ARTS WITH A MAJOR IN ART

Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Religion or Philosophy		2	Religion or Philosophy		2
Mil. 101 First Yr. Basic Course.....	1½		Mil. 102 First Yr. Basic Course.....	1½	
Phe. 101 Physical Education	½		Phe. 102 Physical Education	½	
Phe. 103 Health	½		Phe. 104 Health (women)	½	
Spe. 101 Fund. of Eff. Speaking.....	3		Eng. 101 English Composition	3	
Hist. 111 Hist. of Mod. Europe.....	3		Hist. 112 Hist. of Mod. Europe.....	3	
	Language	3		Language	3
Art	Basic Courses	3	Art	Basic Courses	3

Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Religion or Philosophy		2	Religion or Philosophy		2
Mil. 201 Second Yr. Basic Course.....	1½		Mil. 202 Second Yr. Basic Course.....	1½	
Phe. 201 Phys. Educ. (women)	½		Phe. 202 Phys. Educ. (women).....	½	
Eng. 221 English Literature	3		Eng. 222 American Literature	3	
Hist. 251 Amer. Hist. to 1865.....	3		Hist. 252 Amer. Hist. since 1865.....	3	
Psych. 201 Introd. Psychology	3		Soc. 201 General Sociology	3	
	Language	3		Language	3
Art	Basic Courses	3	Art	Basic Courses	3

Junior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Art	Advanced Art	6	Art	Advanced Art	6
Phil. 300-400 Philosophy	3		Phil. 300-400 Philosophy	3	
	Second Minor*	3		Second Minor*	3
	Electives†	3-6		Electives†	3-6

Senior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Art	Advanced Art	6	Art	Advanced Art	6
Phil. 300-400 Philosophy	3		Phil. 300-400 Philosophy	3	
	Second Minor*	3		Second Minor*	3
	Electives†	3-6		Electives†	3-6

*The second minor may be chosen from the following fields: Psychology,

Sociology, Economics, Political Science, History, English, or one of the languages.

†Electives must be selected from 300-400 courses.

Basic courses in Art to be selected for lower division work are: Design 6 credit hours, Perspective 3 credit hours, Cast Drawing 3 credit hours.

Advanced courses for the field of concentration are: Life Drawing 4½ credit hours, Commercial Art 6 credit hours, Crafts 4½ credit hours, Sculpture 3 credit hours, Painting 3 credit hours, Electives 3 credit hours.

PROGRAM III

BACHELOR OF ARTS WITH A MAJOR IN MATHEMATICAL STATISTICS

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Mil. 101 First Yr. Basic Course.....	1½	Mil. 102 First Yr. Basic Course.....	1½
Phe. 101 Physical Education	½	Phe. 102 Physical Education	½
Phe. 103 Health	½	Phe. 104 Health (women)	½
Eng. 101 English Composition	3	Spe. 101 Fund. of Eff. Speaking.....	3
Hist. 111 Hist. of Mod. Europe.....	3	Hist. 112 Hist. of Mod. Europe.....	3
Language	3	Language	3
Math. 115 Math. Analysis I	5	Math. 116 Math. Analysis II	5
Or. 101 Orientation	0		

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Mil. 201 Second Yr. Basic Course 1½		Mil. 202 Second Yr. Basic Course 1½	
Phe. 201 Phys. Educ. (women)	½	Phe. 202 Phys. Educ. (women)	½
Eng. 316 Advanced Composition ..	3	Eng. 222 American Literature	3
Language	3	Language	3
Math. 201 Differential and		Math. 202 Differential and	
Integral Calculus	4	Integral Calculus	4
Eco. 201 Prin. of Economics	3	Eco. 202 Prin. of Economics	3

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Phil. 300-400 Philosophy	3	Phil. 300-400 Philosophy	3
Math. 301 Differential Equations	3	Math. 302 Theory of Equations	3
Math. 311 Math. Statistics	3	Math. 312 Math. Statistics	3
Eco. 404 Business Cycles	3	Eco. 413 Economic Analysis	3
Psych. 201 Introd. Psychology	3	Soc. 201 General Sociology	3

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Phil. 300-400 Philosophy	3	Phil. 300-400 Philosophy	3
Math. 421 Advanced Calculus	3	Math. 422 Advanced Calculus	3
Math. 441 Intro. to Higher Algebra,		Math. 451 Intro. to Higher Geometry,	
or		or	
Math. 411 Theory of Probability....	3	Math. 416 Intro. to Calculus of Finite	
Eco. 408 Contemporary Economics	3	Differences	3
Hist. 251 Amer. Hist. to 1865.....	3	Eco. 300-400 Economics	3
		Hist. 252 Amer. Hist. since 1865....	3

PROGRAMS IV AND V

BACHELOR OF MUSIC

and

BACHELOR OF ARTS WITH A MAJOR IN MUSIC

See Music Department, under Courses of Instruction.

PROGRAM VI

CARTHAGENA DIVISION

The freshman and sophomore curriculum correspond to the Liberal Arts program followed at St. Joseph's College, Collegeville, Indiana.

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Phil. 307 Philosophy of Nature	5	Phil. 304 Philosophy of Man	4
Phil. 416 History of Ancient		Phil. 417 History of Medieval	
Philosophy	2	Philosophy	4
Hist. 311 History of the		Hist. 313 History of Christian	
Ancient Near East	3	Antiquity	3
Psych. 201 Introductory Psych.	3	Psych. 305 Mental Hygiene	3
Educ. 202 Educational Psych.	3	Spe. 401 Adv. Public Speaking	2
		Educ. 307 Principles of Teaching	2

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Phil. 421 Metaphysics I	3	Phil. 423 Metaphysics of	
Phil. 422 Metaphysics II	3	Knowledge	3
Phil. 324 Ethics	3	Phil. 424 Prob. of Metaphysics	3
Phil. 418 History of Modern		Phil. 419 History of Contemporary	
Philosophy	4	Philosophy	2
Hist. 301 Medieval Europe	3	Hist. 302 Renaissance and Reform. 3	
Spe. 303 Adv. Inter. Reading	2	Soc. 404 Social Institutions	3
		Rel. 409 Old Testament Prophets 4	

DIVISION OF BUSINESS ADMINISTRATION

THE DIVISION OF BUSINESS ADMINISTRATION prepares students for activity in business, community leadership, and service. Because intelligent business and community leadership requires a well-rounded character and mind development, this Division feels that its students must not only be well-versed in Commerce and its related fields, but also in those of Philosophy and the Social Sciences. It is believed that broad training in the various fields within the Division will equip the student with a more diversified training than if too narrow specialization is followed. Also by wisely guiding the student in his choice of elective courses outside this Division, his general knowledge is widened and in this same manner his interests are fostered and developed.

REQUIREMENTS FOR ADMISSION

FOR ADMISSION to the Division of Business Administration the applicant must have sixteen units of acceptable credit. These units should include: three in English; one in Mathematics; one-half unit in American History; and one-half unit in Civics.

DEGREE REQUIREMENTS

THE DIVISION OF BUSINESS ADMINISTRATION confers the degree of Bachelor of Science in Business Administration upon the satisfactory completion of the prescribed requirements. These requirements consist of one hundred and twenty-eight semester hours as a minimum, and twice that number of quality points, which generally cover a program of eight semesters.

Each candidate for the degree must satisfy the prescribed requirements of the Freshman-Sophomore Business Administration program, which has been planned to give the student a broad and liberal training in preparation for business and economics. It is desirable in the Freshman and Sophomore years that the sequence of courses be followed as nearly as possible, but it may be varied to suit the needs of individual students. There is a more specialized curriculum for students in Secretarial Studies.

LOWER DIVISION

Freshman Year

1. Introduction to Business
2. Elementary Accounting
3. Economic Geography
4. Industrial Products and Resources
5. English Composition
6. Fundamentals of Effective Speaking
7. Algebra
8. Religion (for Catholic students)
9. Logic (for non-Catholic students)
10. Physical and Health Education
11. First year Basic Military
12. Orientation

Sophomore Year

1. Principles of Economics
2. Intermediate Accounting
3. Mathematics of Finance
4. American Economic History
5. American Literature
6. Introductory Psychology
7. Business Machines
8. Religion and Christian Marriage (for Catholic students)
9. Philosophical Psychology (for non-Catholic students)
10. Second year Basic Military
11. Electives

Students majoring in Business Organization and Economics, and who do not wish to elect Second Year Accounting, should consult their adviser for substitution. Usually English Literature, Sociology, or Political Science are satisfactory substitutes. (6 credit hours)

UPPER DIVISION

Specialization in one or more fields in this Division occurs in the Junior and Senior years. A particular curriculum in each field is recommended and it is advisable that students adhere as nearly as possible to this sequence of courses. It is possible to major in any one of the three departments of Accounting, Business Organization or Economics. A student may choose to major in two, or major in one and have minors in the other two. A minimum of forty-five hours must be completed in Junior and Senior courses in the Division of Business Administration. A specific requirement of the University is six credits in Philosophy and one course in Psychology.

REQUIRED COURSES

The following courses must be completed by all students who are candidates for a degree in Business Administration.

	<i>Cr. Hours</i>
Bus. 301 Corporation Finance	3
Bus. 303 Business Law	3
Bus. 305 Principles of Marketing	3
Bus. 313 Business Statistics	3
Bus. 316 Industrial Management	3
Bus. 317 Labor Management	3
Eco. 405 Money, Credit, and Banking	3
Eco. 404 Business Cycles and/or	3
Eco. 408 Contemporary Economics	3
Bus. 425 Seminar	2

ACCOUNTING

THE COURSES in Accounting have been designed to provide such training in Accounting as is essential to the general business executive, and to give instruction necessary to those who expect to specialize in public accounting or serve as private accountants in financial or business establishments.

The following courses are prescribed for a minor in Accounting:

	<i>Cr. Hours</i>
Acct. 301-302 Advanced Accounting	6
Acct. 303-304 Cost Accounting	6
Acct. 401-402 Auditing	6

These constitute the core courses. For a major in Accounting, a further sequence of four or five courses is required. A student who majors in Accounting and who chooses to have a minor in both Business Organization and Economics must earn credits for at least two courses in either Business Organization or Economics in addition to those listed above as required courses.

BUSINESS ORGANIZATION AND ECONOMICS

THE WORK in Business Organization provides training for students planning to engage in commercial, industrial, and financial activities. The program is developed to emphasize basic principles in the broad fields of finance, management, and marketing. Current economic developments as well as economic and social implications of past and present business developments are stressed. For students desiring some degree of specialization, special courses are provided in the fields of banking, finance, management, retailing, salesmanship, statistics, business law and applied economics. Provisions are made for a well-rounded business training to aid students to adjust themselves intelligently and successfully to the commercial and industrial world.

The work in Economics has been planned for two groups of students. The first group includes those students who desire a general background and understanding of Economics, its order, development, and operation. The second group consists of those students who desire technical training in preparation for advanced specialized study in business and for professional service with government or enterprise requiring trained economists. A balanced program of study is available to the student in this field. Candidates for the Bachelor of Arts degree who desire to major in Economics will follow the program of the Division of Arts. Students in the Division of Business Administration will follow the curriculum provided.

The student who chooses to major in Business Organization and Economics is required to follow a program which includes in addition to the required basic courses (a) a sequence of three or four courses as a minimum in a specialized field, namely marketing, management, banking and finance, and economics, (b) one or two advanced courses in each of the following, marketing, management, banking and finance, business law, and economics. The student, with the adviser, will decide which of the above plans best meets his needs and interests and will govern his courses accordingly.

PROGRAM I

BACHELOR OF SCIENCE WITH A MAJOR IN ACCOUNTING
BUSINESS ORGANIZATION AND ECONOMICS MINORS*Junior Year*

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Acc. 301 Advanced Account.	3	Acc. 302 Advanced Account.	3
Acc. 303 Cost Accounting	3	Acc. 304 Cost Accounting	3
Bus. 305 Prin. of Marketing	3	Bus. 301 Corporation Finance	3
Bus. 313 Statistics	3	Bus. 303 Business Law	3
Bus. 316 Industrial Management ..	3	Bus. 317 Labor Management	3
Phil. 306 Epistemology or		Phil. 324 Ethics or	
Phil. 301 Introd. to Philosophy I....	3	Phil. 302 Introd. to Philosophy II..	3
	<hr/>		<hr/>
	18		18

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Acc. 401 Auditing I	3	Acc. 402 Auditing II	3
Acc. 403 Federal Income Tax	3	Acc. 404 C. P. A. Problems	3
Acc. 406 Pay Roll Accounting	3	Bus. 404 Business Cycles or	
Eng. 408 Business English	3	Bus. 408 Contemporary Economics	3
Bus. 405 Money, Credit, Banking..	3	Electives	6
Elective or		Bus. 425 Business Seminar	2
Phil. 305 Thomistic Philosophy II..	3		
	<hr/>		<hr/>
	18		17

PROGRAM II

BACHELOR OF SCIENCE WITH A MAJOR IN
BUSINESS ORGANIZATION
ACCOUNTING AND ECONOMICS MINORS*Junior Year*

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Acc. 301 Advanced Account.	3	Acc. 302 Advanced Account.	3
Acc. 303 Cost Accounting	3	Acc. 304 Cost Accounting	3
Bus. 301 Corporation Finance	3	Bus. 304 Business Law	3
Bus. 303 Business Law	3	Bus. 305 Prin. of Marketing	3
Bus. 316 Industrial Management ..	3	Bus. 317 Labor Management	3
Phil. 306 Epistemology or		Phil. 324 Ethics or	
Phil. 301 Introd. to Philosophy I....	3	Phil. 302 Introd. to Philosophy II..	3
	<hr/>		<hr/>
	18		18

Senior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Acc. 401 Auditing I	3		Acc. 402 Auditing II	3	
Bus. 313 Statistics	3		Bus. 307 Advertising	3	
Bus. 404 Business Cycles or			Bus. 310 Salesmanship	3	
Bus. 408 Contemporary Economics	3		Bus. 405 Money, Credit &		
Business Electives	6		Banking	3	
Phil. 305 Thomistic Philosophy II			Eng. 408 Business English	3	
or Elective	3		Bus. 425 Business Seminar	2	
		<hr/>			<hr/>
		18			17

PROGRAM III

BACHELOR OF SCIENCE WITH MAJORS IN BUSINESS
ORGANIZATION AND ECONOMICS

Junior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Bus. 301 Corporation Finance	3		Bus. 304 Business Law	3	
Bus. 303 Business Law	3		Bus. 305 Prin. of Marketing	3	
Bus. 313 Statistics	3		Bus. 310 Salesmanship	3	
Bus. 317 Labor Management	3		Bus. 316 Industrial Management	3	
Bus. 307 Advertising	3		Business Electives	3	
Phil. 306 Epistemology or			Phil. 324 Ethics or		
Phil. 301 Introd. to Philosophy I.....	3		Phil. 302 Introd. to Philosophy II.....	3	
		<hr/>			<hr/>
		18			18

Senior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Bus. 405 Money, Credit &			Bus. 404 Business Cycles or		
Banking	3		Bus. 408 Contemporary Economics	3	
Eco. 308 Insurance	3		Eco. 401 Investments	3	
Business Electives	6		Economics Electives	6	
Bus. 425 Business Seminar	2		Eco. 425 Economics Seminar	2	
Elective or			Eng. 408 Business English	3	
Phil. 305 Thomistic Philosophy II	3				
		<hr/>			<hr/>
		17			17

PROGRAM IV
BACHELOR OF SCIENCE WITH A MAJOR IN
BUSINESS ORGANIZATION
ECONOMICS AND UNRELATED MINORS

<i>Junior Year</i>			
FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 301 Corporation Finance	3	Bus. 305 Prin. of Marketing	3
Bus. 303 Business Law	3	Bus. 310 Salesmanship	3
Bus. 307 Advertising	3	Bus. 313 Statistics	3
Bus. 316 Industrial Management.....	3	Bus. 317 Labor Management	3
Elective (Unrel. minor).....	3	Elective (Unrel. minor).....	3
Phil. 306 Epistemology or		Phil. 324 Ethics or	
Phil. 301 Introd. to Philosophy I.....	3	Phil. 302 Introd. to Philosophy II.....	3
	18		18

<i>Senior Year</i>			
FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 405 Money, Credit & Banking	3	Bus. 404 Business Cycles or	
Business Elective	3	Bus. 408 Contemporary Economics	3
Economics Elective	3	Eco. 401 Investments	3
Bus. 425 Business Seminar	2	Elective (Unrel. minor).....	3
Elective (Unrel. minor).....	3	Electives	9
Phil. 305 Thomistic Philosophy II or Elective	3		
	17		18

PROGRAM V
BACHELOR OF SCIENCE WITH A MAJOR IN ECONOMICS
BUSINESS ORGANIZATION AND UNRELATED MINORS

<i>Junior Year</i>			
FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 301 Corporation Finance	3	Bus. 305 Prin. of Marketing	3
Bus. 303 Business Law	3	Bus. 313 Statistics	3
Bus. 316 Industrial Management.....	3	Bus. 317 Labor Management	3
Eco. 325 Labor Economics	3	Eco. 308 Insurance	3
Elective (Unrel. minor).....	3	Elective (Unrel. minor).....	3
Phil. 306 Epistemology or		Phil. 324 Ethics or	
Phil. 301 Introd. to Philosophy I.....	3	Phil. 302 Introd. to Philosophy II.....	3
	18		18

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 405 Money, Credit & Banking	3	Bus. 406 Money, Credit & Banking	3
Eco. 401 Investments	3	Bus. 404 Business Cycles or	
Eco. 413 Economic Analysis	2	Bus. 408 Contemporary Economics 3	
Eco. 402 Public Finance	3	Elective (Unrel. minor) ..3	
Phil. 305 Thomistic Philosophy II		Economics or Business	
or Elective	3	Electives	6
	—	Eco. 425 Economics Seminar	2
	17		17

PROGRAM VI

BACHELOR OF SCIENCE WITH A MAJOR IN
PERSONNEL ADMINISTRATION*Junior Year*

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 303 Business Law	3	Bus. 301 Corporation Finance	3
Bus. 305 Prin. of Marketing	3	Bus. 313 Statistics	3
Bus. 316 Industrial Management ..3		Bus. 317 Labor Management	3
Psych. 305 Mental Hygiene	3	Phil. 324 Ethics or	
Phil. 306 Epistemology or		Phil. 302 Introd. to Philosophy II..3	
Phil. 301 Introd. to Philosophy I....3		Psych. 408 Social Psychology or	
Psych. 308 Experimental Psych.3		Psych. 402 Measurement of Human	
	—	Behavior	3
	18	Eng. 408 Business English	3
			18

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 327 Elem. of Supervision	3	Bus. 405 Money, Credit & Banking	3
Bus. 404 Business Cycles or		Bus. 419 Collective Bargaining,	
Bus. 408 Contemporary Economics 3		Mediation, Arbitration ..3	
Bus. 319 Job Evaluation and		Bus. 422 Counseling Techniques ..3	
Wage Determination	3	Bus. 421 Theory of Organization..3	
Phil. 305 Thomistic Philosophy II or		Business Electives	6
Elective	3		—
Bus. 324 Labor Legislation	3		18
Psych. 420 Industrial Psychology3			
	18		

PROGRAM VII

BACHELOR OF SCIENCE WITH A MAJOR IN
INDUSTRIAL MANAGEMENT*Junior Year*

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 303 Business Law	3	Bus. 301 Corporation Finance	3
Bus. 305 Prin. of Marketing	3	Bus. 313 Statistics	3
Bus. 316 Industrial Management	3	Bus. 327 Elements of Supervision	3
Eco. 325 Labor Economics	3	Bus. 317 Labor Management	3
Phil. 306 Epistemology or		Eng. 408 Business English	3
Phil. 301 Introd. to Philosophy I	3	Phil. 324 Ethics or	
Acct. 310 Cost Analysis	3	Phil. 302 Introd. to Philosophy II	3
	<hr/> 18		<hr/> 18

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 320 Time and Motion Study	3	Bus. 321 Time and Motion Study	3
Bus. 319 Job Evaluation and		Bus. 405 Money, Credit &	
Wage Determination	3	Banking	3
Bus. 404 Business Cycles or		Bus. 415 Production Methods	
Eco. 408 Contemporary Economics	3	and Control	3
Bus. 324 Labor Legislation	3	Bus. 419 Collective Bargaining,	
Phil. 305 Thomistic Philosophy II or		Mediation, Arbitration	3
Elective	3	Bus. 421 Theory of Organization	3
Psych. 420 Industrial Psychology	3	Elective	3
	<hr/> 18		<hr/> 18

PROGRAM VIII

BACHELOR OF SCIENCE WITH A MAJOR IN RETAILING

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 301 Corporation Finance	3	Bus. 313 Statistics	3
Bus. 303 Business Law	3	Eng. 408 Business English	3
Ret. 305 Introd. to Retailing	3	Ret. 318 Retail Personnel	
Ret. 310 Retail Salesmanship	3	Relations	3
Ret. 316 Textiles	3	Ret. 409 Retail Organization and	
Phil. 306 Epistemology or		Operation	3
Phil. 301 Introd. to Philosophy I	3	Ret. 414 Buying for Retail Stores	3
	<hr/> 18	Phil. 324 Ethics or	
		Phil. 302 Introd. to Philosophy II	3
			<hr/> 18

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bus. 405 Money, Credit, Banking	3	Bus. 402 Credits and Collections....	3
Ret. 307 Retail Advertising	3	Bus. 404 Business Cycles or	
Ret. 319 Color Design & Interior		Eco. 408 Contemporary Economics	3
Decorating	3	Ret. 311 Retail Sales Promotion....	3
Ret. 405 Retail Merchandising		Ret. 320 Fashions or	
Mathematics	3	Elective	3
Ret. 420 Store Laboratory	2	Ret. 421 Store Laboratory	2
Elective or		Ret. 425 Retail Seminar	2
Phil. 305 Thomistic Philosophy II..	3		
	<hr/> 17		<hr/> 16

PROGRAM IX

CERTIFICATE PROGRAM IN SECRETARIAL STUDIES

THE TWO-YEAR Secretarial Studies Certificate Program has been designed especially for those who plan to attend college only two years. It is a complete certificate program in itself, and may also be used as the first two years for a four-year degree program in Business Administration or in Education.

University-trained private secretaries are urgently needed in hospitals, clinics, and other medical service organizations. They are needed in research organizations, personnel, and foreign trade offices, in social service and governmental agencies, in commercial and industrial offices.

In order to qualify for the higher-bracket secretarial positions, expert skill should be achieved in stenography and office procedure. A knowledge of accountancy, finance, and business machines is important. But as important as these studies are, the future worker needs the reinforcement of broad educational training in Economics, History, and other Social Studies. He needs to enrich his personality with higher training in English or other cultural studies.

TWO YEAR SECRETARIAL STUDIES CERTIFICATE PROGRAM

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Rel. 101 Religion or		Rel. 102 Religion or	
Phil. 101 Logic	2	Phil. 102 Logic	2
Phe. 101 Physical Education	1/2	Phe. 102 Physical Education	1/2
Phe. 103 Health	1/2	Phe. 104 Health	1/2
Eng. 101 English Composition	3	Spe. 101 Fund. of Eff. Speaking	3
Sec. 101 Elementary Shorthand	3	Sec. 102 Elementary Shorthand	3
Sec. 103 Elementary Typing	3	Sec. 104 Elementary Typing	3
Sec. 110 Secretarial Math.	3	Bus. 101 Introd. to Business	3
	<hr/> 15		<hr/> 15

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Rel. 201 Religion or		Rel. 202 Religion or	
Phil. 205 Philosophical Psychology 2		Phil. 206 Philosophical Psychology 2	
Phe. 201 Physical Education 1/2		Phe. 202 Physical Education 1/2	
Eco. 204 Survey of Economics3		Bus. 201 Business Machines3	
Sec. 201 Advanced Shorthand3		Sec. 202 Advanced Shorthand3	
Sec. 203 Advanced Typing3		Sec. 204 Advanced Typing3	
Sec. 105 Secretarial Accounting ..3		Sec. 106 Secretarial Accounting3	
Sec. 205 Secretarial Theory3		Sec. 206 Secretarial Theory3	
	<hr/>		<hr/>
	17½		17½

DIVISION OF EDUCATION

THE DIVISION OF EDUCATION is primarily concerned with the professional preparation of future teachers. It is recognized that teaching is an art, that it is an inter-personal affair between teacher and student. As such, the Division of Education incorporates within its professional objectives those overall University objectives aimed at the development of moral, religious, intellectual, social, aesthetic, and physical qualities in teacher-candidates. In this respect, the Division seeks quality rather than quantity in its students.

The four-year program of teacher-education is designed to provide the future teacher with opportunities for: *first*, personal, social, and ethical development; *secondly*, a broad general education; *thirdly*, comprehensive subject matter specialization; and *fourthly*, professional competence.

In this wise, the largest part of the curriculum is directed toward gaining the elements of a broad and sound education. In addition, the teacher should have a feeling of power in his field, which requires that his specialization be comprehensive. Finally, provisions for professional competence are made (1) through adequate study of the various phases in the growth and development of the human individual, (2) through thorough study of the professional foundations which are common to all teaching, and (3) through specialized study of the principles underlying a particular type and level of teaching.

REQUIREMENTS FOR ADMISSION

CERTIFICATES of grades and credits are accepted from all high schools accredited by the North Central Association of Colleges and Secondary Schools, or by any other regional association, and from all high schools on the accredited lists of state universities.

REQUIREMENTS FOR GRADUATION

SPECIFIC FOUR-YEAR course requirements for kindergarten-primary, elementary, secondary, and special (music, art, physical education, business, speech) certification are outlined below.

The Division of Education will not recommend students for graduation unless these students can also qualify and be recommended for teacher certification.

To satisfy University requirements for graduation and State requirements for certification, the student shall fulfill the following requirements:

1. Show evidence of such general scholarship, personal and moral qualities, as give promise of professional success.
2. Earn 128 semester hours credit in approved courses.
3. Meet the following letter-grade requirements:
 - A. Earn a grade-point average of 2.00 or better.
 - B. Show work of no less than "C" caliber in one's specialized teaching field. (No grade of "D" is acceptable in the student's specialized teaching field.)

4. Complete a *minimum* of 24 semester hours in professional courses distributed over the following areas:

	<i>Cr. Hours</i>
A. INTRODUCTION TO EDUCATION	2
B. GROWTH AND DEVELOPMENT	3
Educational Psychology I, Child Psychology, Adolescent Psychology.	
C. THE LEARNING AND TEACHING PROCESSES.....	3-6
Educational Psychology II, Principles of Teaching, Classroom Management, Provisions for Individual Differences, Diagnosis and Remedial Instruction.	
#D. THE PURPOSES AND PRACTICES OF EDUCATION....	5-6
Purposes and Practices of the Elementary School, Principles of Secondary Education, Principles of Education, Philosophy of Education, Modern Theories of Education, History of Educational Thought.	
E. THE INTEGRATED PERSONALITY	3
Mental Hygiene, Principles of Guidance, Interviewing and Counseling Procedures.	
*F. SPECIAL METHODS (in area of specialization)	3
G. STUDENT TEACHING	6-12

#Not applicable to students following courses leading to a Bachelor of Science Degree in Music, Art, or Business Education.

*Students in Elementary Education follow special courses in methods covering (a) Reading, (b) Skills, (c) Content. Students in Kindergarten-Primary Education follow special courses in theory, methods, and materials on kindergarten-primary level.

The responsibility for meeting the University and State requirements rests with the student and not the University officials. The student is cautioned to study the course requirements, especially specific prerequisite course requirements, as noted in the bulletin.

TEACHING CERTIFICATES

THE DIVISION OF EDUCATION is on the approved list of the Ohio State Department of Education for the education and preparation of teachers. In addition to preparing regular kindergarten-primary, elementary, and high school teachers, the Division also enables students to qualify for special certificates in Art, Physical Education, Home Economics, Business Education, Music, and Speech. Provisional certificates will be issued only to those who complete the above mentioned requirements.

PROGRAM I

FOR STUDENTS MAJORING IN ELEMENTARY EDUCATION

Degree: Bachelor of Science in Education

Freshman Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Art 101 Drawing, or	
Sec. 107 Personal Typing	2
Educ. 101 Intro. to Education	2
Educ. 102 Science for the Elem.	
School Teacher I	4
Eng. 101 English Composition	3
Hist. 111 Hist. of Modern Europe	3
Mil. 101 First Yr. Basic Course	1½
Or. 101 Orientation	0
Phe. 101 Physical Education	½
Phe. 103 Health	½

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Art 201 Principles of Design I....	2
Educ. 103 Science for the Elem.	
School Teacher II	4
Hist. 112 Hist. of Modern Europe	3
Mil. 102 First Yr. Basic Course	1½
Phe. 102 Physical Education	½
Phe. 104 Health (Women)	½
Psych. 201 Introductory Psychology	3
Spe. 101 Fund. of Eff. Speaking....	3

Sophomore Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Educ. 200 Purposes and Practices	
of the Elem. School.....	3
Educ. 202 Educ. Psychology I, or	
Educ. 306 Child Psychology	3
Eng. 221 English Literature	3
Hist. 251 Amer. Hist. to 1865.....	3
Mil. 201 Second Yr. Basic Course..	1½
Mus. 141 Intro. to Music	2
Phe. 201 Physical Education	½

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Art 221 or 222 Practical Arts.....	2
Educ. 203 Educ. Psychology II	3
Eng. 222 American Literature	3
Hist. 252 Amer. Hist. since 1865..	3
Mil. 202 Second Yr. Basic Course..	1½
Mus. 102 Music Lit. and Apprec.	2
Phe. 202 Physical Education	½

Junior Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 301 Classroom Mgmt., or	
Elective	3
Educ. 322 Lit. in Elem. School.....	3
Educ. 324 Lang. in Elem. School....	3
Geo. 103 Prin. of Geography	3
Mus. 231 or 232 Teaching Music....	2
Phil. 301 Intro. to Phil. I, or	
Phil. 306 Epistemology	3

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 303 Reading in Elem. School..	3
Educ. 305 Mental Hygiene	3
Educ. 231 Arithmetic for the	
Elem. Teacher	3
Phil. 324 Ethics	3
Phe. 130 Fundamental Rhythms, or	
Phe. 131 Games of Low. Organ.....	2
Electives in the Social Studies	

Senior Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 325 Soc. Stud. in Elem. Sch....	3
Educ. 419 Phil. of Education.....	3
Educ. Elective	3
Phe. 132 Hygiene and Sanitation..	2
Electives in the Social Studies	

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Art 407 Art in the Elem. School..	2
Educ. 414 Student Teaching	6-12
Elective	

PROGRAM II

FOR STUDENTS MAJORING IN SECONDARY EDUCATION

*Degree: Bachelor of Science in Education**Freshman Year*

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Bio. 101 General Biology	4
Educ. 101 Intro. to Education	2
Eng. 101 English Composition	3
Mil. 101 First Yr. Basic Course.....	1½
Or. 101 Orientation	0
Phe. 101 Physical Education	½
Phe. 103 Health	½
Sec. 107 Personal Typing	2
Electives in fields of concentration	

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Bio. 102 General Biology	4
Mil. 102 First Yr. Basic Course.....	1½
Phe. 102 Physical Education	½
Phe. 104 Health (Women)	½
Psych. 201 Introductory Psychology	3
Spe. 101 Fund. of Eff. Speaking.....	3
Electives in fields of concentration	

Sophomore Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Educ. 202 Educ. Psychology I, or	
Educ. 304 Adolescent Psychology	3
Eng. 221 English Literature	3
Mil. 201 Second Yr. Basic Course.....	1½
Phe. 201 Physical Education	
(Women)	½
An approved course in Social Studies	
Electives in fields of concentration	

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Educ. 203 Educ. Psychology II	3
Eng. 222 American Literature	3
Mil. 202 Second Yr. Basic Course.....	1½
Phe. 202 Physical Education	
(Women)	½
An approved course in Social Studies	
Electives in fields of concentration	

Junior Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 302 Prin. of Sec. Educ., or	
Educ. 340 Prin. of Education	2-3
Phil. 301 Intro. to Phil. I, or	
Phil. 306 Epistemology	3
Electives in fields of concentration	

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 305 Mental Hygiene, or	
Educ. 415 Principles of Guidance.....	3
Phil. 324 Ethics	3
Spec. meth. in field of concentration	3
Electives in fields of concentration	

Senior Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 301 Classroom Mgmt., or	
Educ. Elective	3
Educ. 419 Phil. of Educ., or	
Educ. 420 Mod. Theor. of Educ.....	3
Electives in fields of concentration	

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 414 Student Teaching	6-12
Electives in fields of concentration	

PROGRAM III FOR STUDENTS MAJORING IN PHYSICAL EDUCATION

Degree: Bachelor of Science in Education

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Bio. 101 General Biology	4	Bio. 102 General Biology	4
Educ. 101 Intro. to Education	2	Mil. 102 First Yr. Basic Course.....	1½
Eng. 101 English Composition	3	Phe. 102 Physical Education	½
Mil. 101 First Yr. Basic Course.....	1½	Phe. 104 Health (Women)	½
Or. 101 Orientation	0	Phe. 118 Rec. Sports for Women.....	2
Phe. 101 Physical Education	½	Phe. 120 Officiating (Men)	½
Phe. 103 Health	½	Phe. 130 Fundamental Rhythms	2
Phe. 116 Methods in Minor Sports	2	Phe. 131 Games of Low. Organ.....	2
Phe. 117 Teams Sports (Women).....	2	Phe. 133 Physical Educ. Activities	3
Phe. 119 Officiating (Men)	½	Psych. 201 Introductory Psychology	3
Phe. 132 Hygiene and Sanitation.....	2	Spe. 101 Fund. of Eff. Speaking.....	3

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Educ. 202 Educ. Psychology I, or		Educ. 203 Educ. Psychology II	3
Educ. 304 Adolescent Psychology, or		Eng. 222 American Literature	3
Educ. 306 Child Psychology	3	Hist. 112 Hist. of Modern Europe.....	3
Eng. 221 English Literature	3	Mil. 202 Second Yr. Basic Course.....	1½
Hist. 111 Hist. of Modern Europe.....	3	Phe. 202 Physical Educ. (Women)	½
Mil. 201 Second Yr. Basic Course.....	1½	Phe. 204 Human Anatomy	2
Phe. 201 Physical Educ. (Women)	½	Phe. 212 Coaching Baseball and	
Phe. 203 Human Anatomy	2	Track	2
Phe. 210 Coach. Foot. and Basket.....	2	Phe. 221 Theory of Play and Rec.....	2
Phe. 235 Camp. and Playgrounds.....	3	Phe. 234 Indiv. Sports for Women	2
Phe. 245 Modern Dance		Soc. 201 General Sociology	3
(Women)	2		

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 302 Prin. of Sec. Educ., or		Hist. 252 American Hist. since	
Educ. 340 Principles of Education 2-3		1865	3
Educ. 301 Classroom Management,		Phil. 324 Ethics	3
or Elective	3	Phe. 309 Methods in Physical	
Hist. 251 American Hist. to 1865.....	3	Education	2
Phil. 301 Intro. to Phil. I, or		Phe. 329 Recreational Activities	1
Phil. 306 Epistemology	3	Phe. 330 Instructor's First Aid	2
Phe. 303 Human Physiology	3	Phe. 411 Teaching of Health	2
Phe. 323 Program Building	2		
Phe. 328 Recreational Activities	1		
Phe. 346 Problems in Phe. for			
Women	2		

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 419 Phil. of Educ., or		Educ. 414 Student Teaching	6-12
Educ. 420 Mod. Theories of Educ.....	3	Phe. 409 Corrective Phys. Educ.....	2
Phe. 401 Prin. of Physical Educ.....	2	Elective	3
Phe. 402 Org. & Adm. of Phys. Education	2		
Phe. 403 Prin. & Adm. of Health Education	2		
Phe. 405 Tests and Measurements..	2		
Phe. 407 Modern Problem in Public Health	2		
Phe. 412 Teaching of Health	2		

PROGRAM IV

FOR STUDENTS MAJORING IN MUSIC EDUCATION

*Degree: Bachelor of Science in Music Education**Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Educ. 101 Intro. to Education	2	Eng. 101 English Composition	3
Hist. 111 Hist. of Mod. Europe, or		Hist. 112 Hist. of Mod. Europe, or	
Hist. 251 American Hist. to 1865..	3	Hist. 252 American Hist. since 1865	3
Mil. 101 First Yr. Basic Course....	1½	Mil. 102 First Yr. Basic Course....	1½
Mus. 102 Music Lit. and Apprec.....	2	Mus. 152 First Year Theory	5
Mus. 151 First Year Theory	5	Mus. Applied Music	2
Mus. Applied Music	2	Phe. 102 Physical Education	½
Or. 101 Orientation	0	Phe. 104 Health (Women)	½
Phe. 101 Physical Education	½	Psych. 201 Introductory Psychology	3
Phe. 103 Health	½		

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Educ. 202 Educational Psych. I, or		Educ. 203 Educational Psych. II	3
Educ. 304 Adolescent Psych., or		Eng. 222 American Literature	3
Educ. 306 Child Psychology	3	Mil. 202 Second Yr. Basic Course	1½
Eng. 221 English Literature	3	Mus. 252 Second Year Theory	5
Mil. 201 Second Yr. Basic Course	1½	Mus. Applied Music	2
Mus. 251 Second Year Theory	5	Spe. 101 Fundamentals of Effective Speaking	3
Mus. Applied Music	2		
Elective	2		

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 301 Classroom Management ..3		Educ. 305 Mental Hygiene3	
Mus. 231 or 232 Teaching Music...2		Mus. 302 History of Music II.....3	
Mus. 301 History of Music I.....3		Mus. 312 18th Cen. Counterpoint..2	
Mus. 311 18th Cen. Counterpoint ..2		Mus. 322 Instrumentation and	
Mus. 321 Instrumental Conducting 2		Orchestra3	
Mus. 235 Voice Class, or		Mus. 351 Choral Conducting2	
Mus. 325 Inst. Class Methods2		Mus. 331 Vocal Music in H.S., or	
Phil. 301 Intro. to Phil. I, or		Mus. 332 School Band and Orch....2	
Phil. 306 Epistemology3		Phil. 324 Ethics3	

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Educ. 419 Phil. of Education3		Educ. 414 Student Teaching6-12	
Mus. 236 Voice Class, or		Mus. 414 Form and Analysis2	
Mus. 326 Instrumental Class2		Mus. 416 Modern Harmonic Styles,	
Mus. 413 Form and Analysis2		or	
Mus. 415 Mod. Harmonic Styles, or		Mus. 418 16th Cent. Counterpoint..2	
Mus. 417 16th Cen. Counterpoint ..2		Electives4	
Mus. 425 Prob. in Inst. Mus., or			
Mus. 431 Prob. in Vocal Music...2-3			
Electives2-3			

- NOTES: 1. Students must take Applied Music instruction in Piano to a level satisfactory to the Faculty of the Music Department, or demonstrate proficiency at such a level.
2. Needs of the individual student and fulfillment of State requirements should be given first consideration in the choice of electives. Additional Applied Music courses are strongly recommended.
3. Mus. 231 is not required of students qualifying for Secondary School Music Education, but it is strongly recommended for all.

PROGRAM V

FOR STUDENTS MAJORING IN ART EDUCATION

Degree: Bachelor of Science in Art Education

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy2		Religion or Philosophy2	
Art Design3		Art Design3	
Art Perspective1½		Art Perspective1½	
Art Cast Drawing3		Art Cast Drawing3	
Educ. 101 Intro. to Education2		Mil. 102 First Yr. Basic Course...1½	
Eng. 101 English Composition3		Phe. 102 Physical Education ½	
Mil. 101 First Yr. Basic Course ...1½		Phe. 104 Health (Women) ½	
Or. 101 Orientation0		Psych. 201 Introductory Psychology 3	
Phe. 101 Physical Education ½		Spe. 101 Fundamentals of Effective	
Phe. 103 Health ½		Speaking3	

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2	Religion or Philosophy	2
Art An Apprec. of the Arts..	3	Art An Apprec. of the Arts..	3
Art Lettering	1½	Art Lettering	1½
Art Modeling	3	Art Painting	3
Art Form and Color	3	Art Life Drawing	4½
Educ. 202 Educ. Psychology I, or		Educ. 203 Educ. Psychology II	3
Educ. 304 Adolescent Psych., or		Mil. 202 Second Yr. Basic Course 1½	
Educ. 306 Child Psychology	3		
Mil. 201 Second Yr. Basic Course..	1½		

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Art Introd. Art History	2	Art Introd. Art History	2
Art Life Drawing	1½	Art An Apprec. of the Arts..	3
Art Advertising Design	3	Art Methods and Materials....	2
Educ. 301 Classroom Management ..	3	Educ. 305 Mental Hygiene	3
Educ. 419 Philosophy of Education	3	Eng. 222 American Literature	3
Eng. 221 English Literature	3	Phil. 324 Ethics	3
Phil. 301 Intro. to Phil. I, or			
Phil. 306 Epistemology	3		

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Art Commercial Illustration ..	4½	Art Commercial Illustrations	4½
Art Crafts	4½	Art Crafts	4½
Educ. 414 Student Teaching	3-6	Educ. 414 Student Teaching	3-6

PROGRAM VI

FOR STUDENTS WHO DESIRE DUAL CERTIFICATION
(QUALIFYING FOR BOTH THE PROVISIONAL ELEMENTARY
CERTIFICATE AND THE HIGH SCHOOL
OR SPECIAL CERTIFICATE)

Degree: Bachelor of Science in Education

A. PROFESSIONAL REQUIREMENTS *Cr. Hrs.* 34

The student shall complete a minimum of 34 semester hours
in professional courses distributed among the following areas:

- | | <i>Cr. Hrs.</i> |
|-----------------------------------|-----------------|
| 1. INTRODUCTION TO EDUCATION..... | 2 |
| 2. GROWTH AND DEVELOPMENT | 3 |
| Educational Psychology I. | |

3. THE LEARNING AND TEACHING PROCESSES.....	3-6
Educational Psychology II, Classroom Management, Diagnostic and Remedial Instruction, Provisions for Individual Differences.	
4. PURPOSES AND PRACTICES OF EDUCATION	5-6
Principles of Education and Philosophy of Education or Modern Theories of Education.	
5. METHODS	12
Reading in the Elementary School, Language in the Elem. School, Arithmetic in the Elementary School, Special Methods in Secondary Teaching field.	
6. STUDENT TEACHING	8-12
Actual Classroom teaching under supervision in both elementary and secondary grades.	
B. GENERAL REQUIREMENTS	64
The student shall complete not less than 64 semester hours of credit distributed over the following areas:	
	<i>Cr. Hrs.</i>
1. PHILOSOPHY (OR RELIGION)	6-14
2. LANGUAGE ARTS	15-18
English Composition, Literature in the Elementary School, English Literature, American Literature, Speech.	
3. SOCIAL STUDIES	18-24
American History, European History, American Government, Geography, Sociology, Economic Problems.	
4. SCIENCE	8-12
Science for the Elementary School Teacher (or any other combination of biological and physical sciences).	
5. HEALTH AND PHYSICAL EDUCATION	3-6
Hygiene and Sanitation, Fundamental Rhythms, Games of Low Organization, Theory of Play and Recreation.	
6. MUSIC, ART, AND CRAFTS	6-9
Music Literature and Appreciation, Introduction to Music, Drawing, Principles of Design, Practical Arts, Cultural History of Europe.	
7. ARITHMETIC	3
Arithmetic for the Elementary School Teacher.	
C. ELECTIVES	30
Elective credits should include service courses in physical education, Military, and fields of teaching at the secondary level.	

PROGRAM VII

FOR STUDENTS WHO HAVE COMPLETED REQUIREMENTS
FOR THE PROVISIONAL HIGH SCHOOL CERTIFICATE OR
FOR THE PROVISIONAL SPECIAL CERTIFICATE AND
WHO DESIRE CERTIFICATION VALID
FOR ELEMENTARY TEACHING

- A. The holder of a Provisional High School or Special Certificate may obtain a certificate valid for elementary teaching by completing the following 12 semester hours of credit:
- | | <i>Cr. Hrs.</i> |
|--|-----------------|
| 1. Purposes and Practices of the Elementary School | 3 |
| 2. Reading in the Elementary School | 3 |
| 3. Arithmetic in the Elementary School | 3 |
| 4. Child Psychology | 3 |
- B. Such a certificate shall be designated as a "RETRAINING" certificate. It may be renewed upon evidence of the completion of 12 semester hours of additional credit in elementary education. Subsequent renewals may be gained without additional training.

PROGRAM VIII

FOR STUDENTS WHO DESIRE TO QUALIFY FOR A
PROVISIONAL CADET ELEMENTARY CERTIFICATE

- | | <i>Cr. Hrs.</i> |
|---|-----------------|
| A. PROFESSIONAL REQUIREMENTS | 18 |
| The student shall complete a minimum of 18 semester hours in professional courses distributed among the following areas: | |
| 1. GROWTH AND DEVELOPMENT | 3 |
| Child Psychology, Educational Psychology I. | |
| 2. THE LEARNING AND TEACHING PROCESSES | 6-9 |
| Educational Psychology II, Classroom Management, Special Methods, Provisions for Individual Differences, Diagnosis and Remedial Instruction, etc. | |
| 3. PURPOSES AND PRACTICES OF EDUCATION | 3 |
| Purposes and Practices of the Elementary School. | |
| 4. STUDENT TEACHING | 6-9 |
| Actual classroom teaching under supervision, preferably in large blocks of time per day. | |
| B. GENERAL REQUIREMENTS | 38 |
| The student shall complete not less than 38 semester hours of credit distributed among the following areas: | |

	<i>Cr. Hrs.</i>
1. LANGUAGE ARTS	9-12
Literature in the Elementary School, English Composition, English Literature, Speech.	
2. SOCIAL STUDIES	9-15
American History since 1865, Principles of Geography, American Government, European History, Sociology. (A basic course in American History or American Government must be included.)	
3. SCIENCE	6-8
Science for the Elementary Teacher.	
4. HEALTH AND PHYSICAL EDUCATION	3-6
Hygiene and Sanitation, Fundamental Rhythms, Games of Low Organization, Theory of Play and Recreation.	
5. ART AND CRAFTS	2-4
Drawing, Principles of Design, Practical Arts, Art in the Elementary School. (Practical Arts must be included.)	
6. MUSIC	2-4
Introduction to Music, Music Literature and Appreciation, Music in the Elementary School.	
7. ARITHMETIC	3
Arithmetic for the Elementary School Teacher.	
C. ELECTIVES	6
	<hr/> 62

D. A Provisional Cadet Elementary Certificate issued to one who entered upon preparation for such certificate after May 9, 1952, may be renewed only upon evidence of the completion of 24 semester hours (equivalent to at least 6 semester hours per year) of additional training applicable to the degree in elementary education.

A second renewal may be granted under the same requirements.

DIVISION OF SCIENCE

CANDIDATES for the degree of Bachelor of Science may major in biology, chemistry, geology, mathematics, home economics, medical technology, medical radiological technique, nursing education, and physics.

Besides satisfying the requirements already mentioned in the foreword under the heading Requirements for Degrees, an applicant for a degree must have acquired from 18 to 24 credit hours for the major, 12 credit hours for the related minor. Basic courses do not count toward the major or minor.

REQUIREMENTS FOR ADMISSION

FOR ADMISSION to the Division of Science, students shall have completed a four-year course of at least sixteen units in an accredited high school or other institution of standard secondary school grade. They must be in the upper two-thirds of their classes.

REQUIRED STUDIES

English	3 units
Language—Latin, Greek, or Modern Foreign	2 units
Algebra—to Quadratics	1 unit
Chemistry or Physics	1 unit
Geometry—Plane*	1 unit
History	1 unit
ELECTIVES	7 units

*Students wishing to major in Chemistry, Mathematics, or Physics should present 1½ units in Plane and Solid Geometry.

PRE-MEDICAL COURSE

THE PROGRAM offered the students of this course meets the requirements for admission to approved medical schools as determined by the Council of Medical Education of the American Medical Association.

For those pre-medical students for whom it is possible, the four-year course leading to the degree of Bachelor of Science with a major in biology is recommended.

A reading knowledge of one language, either German or French, is generally required by the medical schools. One year of college work, in addition to the high school units in the same language, may be sufficient.

Recommendation of a student by his pre-medical school is usually an important item for admission to medical or dental school. Recommendation is based on more than academic standing; character and personality qualities are

also weighed. The board on pre-medical recommendations is made up of the following:

LOUIS A. SALETTEL, S.M., *Chairman*

SYLVESTER EVESLAGE

ROBERT C. WIECHMAN

RUSSELL A. JOLY, S.M.

PETER J. FASO

VINCENT J. WOTTLE, S.M.

PAUL TOWNSEND

WILLIAM O. WEHRLE, S.M.

PROGRAM I

BACHELOR OF SCIENCE WITH A MAJOR IN BIOLOGY

This course, consisting of a major in Biology and a related minor in Chemistry, is especially adapted to the needs of pre-medical and pre-dental students.

Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>	<i>Cr. Hours</i>		<i>Subjects</i>	<i>Cr. Hours</i>	
Chem. 105 Inorganic Chemistry	4		Chem. 106 Inorganic Chemistry	4	
Bio. 105 Zoology	4		Bio. 106 Zoology	4	
Math. 101 College Algebra	3		Math. 102 Trigonometry	3	
Eng. 101 English Composition	3		Eng. 221 English Literature	3	
Rel. 101 Christian Doctrine, or			Rel. 102 Christian Morals, or		
Phil. 101 Logic	2		Phil. 102 Logic	2	
Phe. 101 Physical Education	1½		Phe. 102 Physical Education	1½	
Mil. 101 First Basic Military	1½		Mil. 102 First Basic Military	1½	
Or. 101 Orientation	0				

Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>	<i>Cr. Hours</i>		<i>Subjects</i>	<i>Cr. Hours</i>	
Chem. 201 Organic Chemistry	5		Chem. 202 Organic Chemistry	5	
Bio. 201 Comparative Anatomy	4		Bio. 202 Comparative Anatomy	4	
Phys. 201 General Physics	4		Phys. 202 General Physics	4	
Bio. 315 Botany	4		Rel. 203 Christian Marriage, or		
Rel. 201 Christian Worship, or			Phil. 206 Philosophical Psychology 2		
Phil. 205 Philosophical Psychology 2			Mil. 202 Second Basic Military	1½	
Mil. 201 Second Basic Military	1½		*Elective	3	

Junior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>	<i>Cr. Hours</i>		<i>Subjects</i>	<i>Cr. Hours</i>	
Chem. 207 Qualitative Analysis	4		Chem. 301 Quantitative Analysis	4	
Bio. Advanced Courses	6		Bio. Advanced Courses	6	
Eng. Advanced English	3		Eng. Advanced English	3	
*Elective	3		*Elective	3	

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Chem. 302 Physical Chemistry	4	Bio. Advanced Courses	3-6
Bio. Advanced Courses	3-6	Phil. 482 Medical Ethics	3
Phil. 324 Ethics	3	*Electives	3-6
*Elective	3		

*Systematic Botany, Modern Language, Government, and Psychology are courses helpful to students who plan Medicine or Dentistry as a career.

PROGRAM II

BACHELOR OF SCIENCE WITH A MAJOR IN CHEMISTRY

The following curriculum consists of a major in Chemistry and a related minor in Mathematics. Physics, Geology, or Biology may replace Mathematics as a minor. The course is suggestive; variations can be made to satisfy individual needs.

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Rel. 101 Christian Doctrine, or		Rel. 102 Christian Morals, or	
Phil. 101 Logic	2	Phil. 102 Logic	2
Mil. 101 First Basic Military	1½	Mil. 102 First Basic Military	1½
Eng. 101 English Composition	3	Eng. 221 English Literature	3
Math. 115 Math. Analysis	5	Math. 116 Math. Analysis	5
Chem. 107 Inorganic Chemistry	4	Chem. 108 Inorganic Chemistry	4
Phe. 101 Physical Education	½	Phys. 206 Mechanics & Sound	4
Phe. 103 Health	½	Phe. 102 Physical Education	½
Or. 101 Orientation	0		

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Rel. 201 Christian Worship, or		Rel. 203 Christian Marriage, or	
Phil. 205 Philosophical Psychology 2		Phil. 206 Philosophical Psychology 2	
Mil. 201 Second Basic Military	1½	Mil. 202 Second Basic Military	1½
Chem. 205 Analytic Chemistry	6	Chem. 206 Analytic Chemistry	6
Math. 201 Calculus	4	Math. 202 Calculus	4
Phys. 207 Electricity & Magnetism ..	4	Phys. 208 Heat & Light	4
Ger. 101 Elementary German	3	Ger. 102 Elementary German	3

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Chem. 303 Physical Chemistry	4	Chem. 304 Physical Chemistry	4
Chem. 305 Organic Chemistry	6	Chem. 306 Organic Chemistry	6
Math. Advanced Course	3	Math. Advanced Course	3
Geo. 201 Mineralogy	4	Ch. E. 302 Chem. Eng. Calculations 2	
Ger. 307 Chemical German	3		

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Ch.E. 401 Industrial Chemistry	3	Ch.E. 402 Industrial Chemistry	3
Chem. 403 Technical Analysis	3	Chem. 412 Advanced Organic Chem. 3	
Chem. 415 Adv. Inorganic Chem.	2	Chem. 416 Adv. Inorganic Chem.	2
Eng. Advanced Course	3	Eng. Advanced Course	3
Chem. 410 Seminar	0	Chem. 410 Seminar	1
Phil. 324 Ethics, or		Rel. 420 Religion and Science	3
Phil. 301 Intro. to Philosophy I.....	3		

PROGRAM III

BACHELOR OF SCIENCE WITH A MAJOR IN GEOLOGY

The following curriculum consists of a major in Geology and a joint minor in Biology and Chemistry. The curriculum is only suggestive; variations in the minor may be made to satisfy individual needs.

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Rel. 101 Christian Doctrine, or		Rel. 102 Christian Morals, or	
Phil. 101 Logic	2	Phil. 102 Logic	2
Mil. 101 First Basic Military	1½	Mil. 102 First Basic Military	1½
Eng. 101 English Composition	3	Eng. 221 English Literature	3
Math. 101 College Algebra	3	Math. 102 Trigonometry	3
Chem. 105 Inorganic Chemistry	4	Chem. 106 Inorganic Chemistry	4
Geo. 101 Physical Geology	4	Geo. 102 Historical Geology	4
Phe. 101 Physical Education	½	Phe. 102 Physical Education	½
Phe. 103 Health	½		
Or. 101 Orientation	0		

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Rel. 201 Christian Worship, or		Rel. 203 Christian Marriage, or	
Phil. 205 Philosophical Psychology 2		Phil. 206 Philosophical Psychology 2	
Mil. 201 Second Basic Military	1½	Mil. 202 Second Basic Military	1½
Geo. 201 Mineralogy	4	Geo. 202 Optical Mineralogy and	
Bio. 101 General Biology	4	Petrography	4
Phys. 201 General Physics	4	Bio. 102 General Biology	4
Modern Language	3	Phys. 202 General Physics	4
		Modern Language	3

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Geo. Advanced Courses	8	Geo. Advanced Courses	8
Chem. 207 Qualitative Analysis	4	Chem. 301 Quantitative Analysis	4
Bio. 201 Comparative Anatomy	4	Bio. 202 Comparative Anatomy	4
Modern Language	3	Modern Language	3
		*Geo. 303 Field Course	6

Senior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Geo.	Advanced Courses	6	Geo.	Advanced Courses	8
Bio.	401 Bacteriology	4	Bio.	402 Bacteriology	4
Phil.	324 Ethics, or		Rel.	420 Religion and Science	3
Phil.	301 Intro. to Philosophy I	3			

*Field Course is taken during summer following the Sophomore or Junior Year.

PROGRAM IV

BACHELOR OF SCIENCE WITH A MAJOR IN MATHEMATICS
OR MATHEMATICAL STATISTICS

The following curriculum consists of a major in Mathematics and a related minor in Physics. Biology, Chemistry, or Geology may replace Physics as a minor. The curriculum is only suggestive; variations may be made to satisfy individual needs.

Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Rel.	101 Christian Doctrine, or		Rel.	102 Christian Morals, or	
Phil.	101 Logic	2	Phil.	102 Logic	2
Mil.	101 First Basic Military	1½	Mil.	102 First Basic Military	1½
Phe.	101 Physical Education	½	Phe.	102 Physical Education	½
Phe.	103 Health	½	Math.	116 Math. Analysis	5
Math.	115 Math. Analysis	5	Chem.	108 Inorganic Chemistry	4
Chem.	107 Inorganic Chemistry	4	Phys.	206 Mechanics & Sound	4
Eng.	101 English Composition	3			
Or.	101 Orientation	0			

Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Rel.	201 Christian Worship, or		Rel.	203 Christian Marriage, or	
Phil.	205 Philosophical Psychology	2	Phil.	206 Philosophical Psychology	2
Mil.	201 Second Basic Military	1½	Mil.	202 Second Basic Military	1½
Math.	201 Calculus	4	Math.	202 Calculus	4
Phys.	207 Elect. & Magnetism	4	Phys.	208 Heat and Light	4
	Modern Language	3	Eng.	221 English Literature	3
	Elective	3		Modern Language	3

Junior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Math.	Advanced Courses	6	Math.	Advanced Courses	6
Phys.	Advanced Course	3	Phys.	Advanced Course	3
Phil.	301 Introd. to Philosophy I, or		Rel.	420 Religion and Science	3
Phil.	324 Ethics	3	Ger.	306 Scientific German	3
Ger.	305 Scientific German	3			

Senior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Math.	Advanced Courses	3-6	Math.	Advanced Courses	3-6
Phys.	Advanced Course	3	Phys.	Advanced Course	3
Eng.	Advanced Course	3	Eng.	Advanced Course	3
	Elective	3		Elective	3

NOTE: Students desiring to major in Mathematical Statistics should elect two semesters of Mathematical Statistics in their Junior year, and Probability and the Calculus of Finite Differences in their Senior year.

PROGRAM V

BACHELOR OF SCIENCE WITH A MAJOR IN PHYSICS

The following curriculum consists of a major in Physics and a related minor in Mathematics. Chemistry or Biology may replace Mathematics as a minor. The course is suggestive; variations may be made to satisfy individual needs.

Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Rel. 101	Christian Doctrine, or		Rel. 102	Christian Morals, or	
Phil. 101	Logic	2	Phil. 102	Logic	2
Mil. 101	First Basic Military	1½	Mil. 102	First Basic Military	1½
Phe. 101	Physical Education	½	Phe. 102	Physical Education	½
Phe. 103	Health	½	Math. 116	Math. Analysis	5
Eng. 101	English Composition	3	Chem. 108	Inorganic Chemistry	4
Math. 115	Math. Analysis	5	Phys. 206	Mechanics and Sound	4
Chem. 107	Inorganic Chemistry	4			
Or. 101	Orientation	0			

Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Rel. 201	Christian Worship, or		Rel. 203	Christian Marriage, or	
Phil. 205	Philosophical Psychology 2		Phil. 206	Philosophical Psychology 2	
Mil. 201	Second Basic Military	1½	Mil. 202	Second Basic Military	1½
Math. 201	Calculus	4	Math. 202	Calculus	4
Phys. 207	Electricity & Magnetism 4		Phys. 208	Heat and Light	4
	Modern Language	3	Eng. 221	English Literature	3
	Elective	3		Modern Language	3

Junior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Phys.	Advanced Courses	3-6	Phys.	Advanced Courses	3-6
Math.	Advanced Course	3	Math.	Advanced Course	3
Ger. 305	Scientific German	3	Ger. 306	Scientific German	3
Eng.	Advanced Course	3	Eng.	Advanced Course	3

Senior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Phys.	Advanced Courses	3-6	Phys.	Advanced Courses	3-6
Phil. 301	Introd. to Philosophy, or		Rel. 420	Religion and Science	3
Phil. 324	Ethics	3		Electives	6
	Electives	6			

PROGRAM VI

BACHELOR OF SCIENCE IN HOME ECONOMICS

INCLUDED in the Division of Science is the Department of Home Economics, offering a four-year program leading to the degree of Bachelor of Science in Home Economics.

For admission to the Department of Home Economics a student must be a graduate of an accredited high school.

The Department provides six special curricula:

- (a) Dietetics and Institutional Management.
- (b) Home Economics Education.
- (c) Clothing and Textiles.
- (d) Home Economics in Business: Foods.
- (e) Interior Decoration.
- (f) General Home Economics.

Students following these curricula may be employed in home-making, teaching, interior decorating, the designing of clothes and costumes, the management of cafeterias, dormitories, and tearooms, demonstrating for commercial manufacturing concerns, dietetics in hospitals and other institutions, graduate work, and research projects.

The Department of Home Economics has been accredited by the Ohio State Department of Education to train teachers in Home Economics for Secondary Schools. Graduates qualify for the Provisional Special Teaching Certificate in Home Economics.

The Department also offers a Teaching Field in Home Economics for students in the Division of Education.

The Curriculum for Dietetics and Institutional Management meets the requirements of the American Dietetics Association.

FRESHMAN YEAR FOR ALL HOME ECONOMICS MAJORS

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Hec. 100	Introd. to Home Ec.	1	Hec. 101	Beginning Clothing	3
*Hec. 102	Foods I	3	Hec. 214	Textiles I	3
Hec. 105	Introd. to Related Art	3	*Chem.200	Organic Chemistry	5
*Chem.100	Inorganic Chemistry	5	Spe. 101	Fundamentals of	
Eng. 101	English Composition	3		Effective Speaking	3
Phe. 101	Physical Education	1/2	Phe. 102	Physical Education	1/2
Rel. 101	Christian Doctrine, or		Rel. 102	Christian Morals, or	
Phil. 101	Logic	2	Phil. 102	Logic	2
Or. 101	Orientation	0			

*Required of Student Dietitians by the Executive Board of the American Dietetic Association.

1. MAJOR: CLOTHING AND TEXTILES

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bio. 101 General Biology	4	Bio. 102 General Biology	4
Hec. 203 Health and Home Nurs. 3		Hec. 316 Textiles II	3
Hec. 318 Family Relationships	3	Hec. 221 Home Management I	3
Hec. 311 Advanced Clothing	3	Hec. 314 Costume, Art & Design 3	
Psych. 201 Introd. Psychology	3	Soc. 202 Social Problems	3
Rel. 201 Christian Worship, or		Rel. 203 Christian Marriage, or	
Phil. 205 Philosophical Psychology 2		Phil. 206 Philosophical Psychology 2	
Phe. 201 Physical Education	1/2	Phe. 202 Physical Education	1/2

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 303 Nutrition and Health	3	Hec. 312 Children's Clothing	3
Hec. 302 Menu Planning	3	Hec. 315 Consumer Buying	3
Hec. 415 Tailoring	3	Hec. 412 Historic Costume	3
Eco. 204 Survey of Economics	3	Bio. 303 Physiology	3
Bus. 310 Salesmanship	3	Bus. 309 Retail Merchandising	3
Phil. 324 Ethics	3	Hec. 423 Home Furnishings I	3

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 425 Child Development I	3	Hec. 406 Home Management II	3
Hec. 427 Textile Economics	3	Hec. 431 Field Work	3-6
Electives	6	Electives	6

2. MAJOR: DIETETICS AND INSTITUTIONAL MANAGEMENT

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
*Bio. 101 General Biology	4	*Bio. 102 General Biology	4
Hec. 203 Health & Home Nursing 3		*Hec. 201 Foods II	3
Hec. 205 Elem. Accounting	3	Hec. 221 Home Management I	3
Hec. 318 Family Relationships	3	Hec. 305 Institutional Accounting 3	
*Psych. 201 Introd. Psychology	3	*Soc. 202 Social Problems	3
Rel. 201 Christian Worship, or		Rel. 203 Christian Marriage, or	
Phil. 205 Philosophical Psychology 2		Phil. 206 Philosophical Psychology 2	
Phe. 201 Physical Education	1/2	Phe. 202 Physical Education	1/2

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
*Hec. 303 Nutrition and Health	3	*Hec. 304 Quantity Cookery	3
*Hec. 302 Menu Planning	3	*Hec. 308 Institutional Buying	3
*Chem. 400 Biochemistry	5	*Hec. 401 Advanced Nutrition	3
*Eco. 204 Survey of Economics	3	Hec. 307 Household Physics	3
Phil. 324 Ethics	3	*Bio. 303 Physiology	3
		Hec. 323 Demonstration Methods 1	

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 309 Household Equipment	3	*Hec. 407 Institutional Org.	3
Hec. 409 Advanced Foods	3	*Hec. 402 Diet in Disease	3
Hec. 425 Child Development I	3	Hec. 406 Home Management II	3
*Educ. 202 Educational Psychology I	3	*Educ. 203 Educational Psych. II	3
*Bio. 401 Bacteriology	4	*Hec. 405 Teaching of Home Eco. ..	3

*Required of Student Dietitians by the Executive Board of the American Dietetic Association.

3. MAJOR: HOME ECONOMICS EDUCATION

Sophomore Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Bio. 101 General Biology	4	Bio. 102 General Biology	4
Hec. 203 Health & Home Nursing	3	Hec. 201 Foods II	3
Hec. 318 Family Relationships	3	Hec. 221 Home Management I	3
Psych. 201 Introd. Psychology	3	Hec. 307 Household Physics	3
Rel. 201 Christian Worship, or		Rel. 203 Christian Marriage, or	
Phil. 205 Philosophical Psychology 2		Phil. 206 Philosophical Psychology 2	
Phe. 201 Physical Education	1/2	Phe. 202 Physical Education	1/2

Junior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 303 Nutrition and Health	3	Hec. 304 Quantity Cookery	3
Hec. 302 Menu Planning	3	Hec. 315 Consumer Buying	3
Hec. 309 Household Equipment	3	Hec. 323 Demonstration Methods 1	
Bio. 401 Bacteriology	4	Bio. 303 Physiology	3
Educ. 202 Educational Psych. I	3	Educ. 203 Educational Psych. II	3
Phil. 324 Ethics	3	Soc. 202 Social Problems	3
		Educ. 301 Classroom Management ..	3

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 409 Advanced Foods	3	Hec. 406 Home Management II	3
Hec. 425 Child Development I	3	Hec. 426 Child Development II	3
Hec. 415 Tailoring, or		Hec. 423 Home Furnishings I	3
Hec. 311 Advanced Clothing	3	Educ. 415 Principles of Guidance ..	3
Hec. 405 Teaching of Home Eco. 3		Educ. 414 Student Teaching	5
Educ. 307 Principles of Teaching ..			

4. MAJOR: BUSINESS: FOODS

Sophomore Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Bio. 101 General Biology	4
Hec. 203 Health & Home Nursing	3
Hec. 318 Family Relationships	3
Hec. 303 Nutrition and Health	3
Psych. 201 Introd. Psychology	3
Rel. 201 Christian Worship, or	
Phil. 205 Philosophical Psychology 2	
Phe. 201 Physical Education	1/2

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Bio. 102 General Biology	4
Hec. 201 Foods II	3
Hec. 221 Home Management I	3
Hec. 307 Household Physics	3
Soc. 202 Social Problems	3
Rel. 203 Christian Marriage, or	
Phil. 206 Philosophical Psychology 2	
Phe. 202 Physical Education	1/2

Junior Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 302 Menu Planning	3
Hec. 309 Household Equipment	3
Bio. 401 Bacteriology	4
Eco. 204 Survey of Economics	3
Bus. 310 Salesmanship	3
Phil. 324 Ethics	3

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 304 Quantity Cookery	3
Hec. 401 Advanced Nutrition	3
Bio. 303 Physiology	3
Bus. 309 Retail Merchandising	3
Hec. 423 Home Furnishings	3
Hec. 323 Demonstration Methods..1	

Senior Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 409 Advanced Foods	3
Hec. 425 Child Development I.....	3
Hec. 424 Home Planning	3
Electives	6

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 406 Home Management II	3
Hec. 426 Child Development II	3
Hec. 402 Diet in Disease	3
Hec. 431 Field Work	3-6

5. MAJOR: INTERIOR DECORATION

Sophomore Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Art 107 Cultural Hist. of Europe to 1830	3
Art 103 Introd. Painting I	2
Eco. 204 Survey of Economics	3
Hec. 203 Health and Home Nurs....	3
Phe. 201 Physical Education	1/2
Psych. 201 Introductory Psychology..	3

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Religion or Philosophy	2
Art 108 Cultural Hist. of Europe since 1830	3
Art 201 Prin. of Design I.....	2
Hec. 221 Home Management I	3
Hec. 222 Historic Textiles	3
Phe. 202 Physical Education	1/2
Soc. 202 Social Problems	3

Junior Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Art 104 Introd. Painting II.....	2
Bus. 310 Salesmanship	3
Hec. 302 Meal Planning and Table Service	3
Hec. 318 Family Relationships	3
Hec. 431 Field Work	3
Phil. 324 Ethics	3

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Art 202 Prin. of Design II.....	2
Hec. 314 Costume, Art and Design 3	
Hec. 315 Consumer Buying	3
Hec. 323 Demonstration Methods..1	
Hec. 324 Bishop Clothing Construction Methods	3
Hec. 423 Home Furnishings I.....	3
Bus. 309 Retail Merchandising	3

Senior Year

FIRST SEMESTER		SECOND SEMESTER	
<i>Subjects</i>	<i>Cr. Hours</i>	<i>Subjects</i>	<i>Cr. Hours</i>
Hec. 427 Textile Economics	3	Hec. 406 Home Management II	3
Hec. 430 Home Furnishings II	3	Hec. 424 Home Architecture	3
Hec. 431 Field Work	3	Hec. 431 Field Work	3
Electives	6	Electives	3

6. MAJOR: GENERAL HOME ECONOMICS

The general major is planned to give a broad cultural course and training for homemaking. Opportunity exists for many electives.

The curriculum is essentially that listed for Home Economics Education. However, the courses in Education may be replaced by electives.

PROGRAM VII**BACHELOR OF SCIENCE WITH A MAJOR IN
MEDICAL TECHNOLOGY**

A TWELVE or thirteen month course in Medical Technology is offered by the Diagnostic Laboratories of St. Elizabeth Hospital, Good Samaritan Hospital, Miami Valley Hospital, and Veterans Administration Hospital. Affiliation with the University of Dayton permits a student to obtain the degree of Bachelor of Science in Medical Technology if the University's requirements are fulfilled. These schools are accredited by the Registry of Medical Technologists of the American Society of Clinical Pathologists through the Council on Medical Education and Hospitals of the American Medical Association, and qualify a student to take the examination given by the Registry of Medical Technologists.

The student receives practical and theoretical experience in the various branches of the clinical laboratory, after which he is qualified for positions in physicians' offices, clinics, and hospitals.

ADMINISTRATION

WILLIAM ABRAMSON, M.D., Director, The Diagnostic Laboratories, St. Elizabeth Hospital.

HENRY CAES, M.D., Director, The Diagnostic Laboratories, Good Samaritan Hospital.

MELVIN OOSTING, M.D., Director, The Diagnostic Laboratories, Miami Valley Hospital.

ALDEN THOMPSON, M.D., Director, The Diagnostic Laboratories, Veterans Administration Hospital.

LOUIS A. SALETTEL, S.M., PH.D., Head of Division of Science, University of Dayton.

FACILITIES FOR INSTRUCTION

MATERIAL FOR INSTRUCTION is furnished from all departments of the hospitals. All laboratory examinations are centralized in the Clinical and Pathological Laboratories, which are fully equipped with all types of apparatus and special teaching materials.

METHODS OF INSTRUCTION

AFTER A PRELIMINARY concentrated introduction to medical technology, the student participates in the activities of the Diagnostic Laboratories, spending a specific time in each department. Instruction is largely by supervised practice and demonstration, given by members of the laboratory staff. Regular assignments in recognized textbooks and laboratory periodicals are given. Conferences and examinations are held throughout the year. Following a review period at the end of the prescribed course, a final examination is given patterned after that of the Registry of Medical Technologists.

ENTRANCE REQUIREMENTS

APPLICATION may be made in person or by letter. A personal interview is highly desirable. For students who are not interested in receiving a degree but desire to earn a certificate only, a two-year program will be arranged by the Head of the Division which will satisfy the minimum requirements for admission to the hospital training period. In general this program will be similar to the first two years of the pre-medical program.

Applicants must present the following qualifications:

A. FOR CERTIFICATE ONLY.

1. Two years (60 credit hours) of college work in a college or university accredited by a recognized standardizing association.
2. The minimum credits as required by the Registry of Medical Technologists, Muncie, Indiana, with minor additions listed below. The student must submit an official transcript of college credits approved by the Registry. The following credits are required:

Biology: 12 semester hours which may include general biology, parasitology, physiology, anatomy, histology, embryology, zoology. Biology and physiology are preferred.

Chemistry: One year of General Inorganic Chemistry to include both lectures and laboratory.

3 semester hours of Quantitative Chemistry, Organic Chemistry, or Biochemistry including lectures and laboratory. Quantitative Chemistry is preferred.

Bacteriology: 3 semester hours of introductory Bacteriology are required.

English: 6 semester hours in English Rhetoric and Composition.

Electives: It is recommended that subjects such as Zoology, Anatomy, Phys-

ics, Organic Chemistry, advanced Bacteriology, while not required, be taken to fulfill the requirements for the total credit hours.

B. FOR B. S. IN MEDICAL TECHNOLOGY.

1. Three years of college work of which a minimum of 30 semester hours must be taken at the University of Dayton. The subjects listed above should be included.

2. 52-56 weeks' work at the Hospital Laboratory for which the student receives 33 semester hours of credit. Some students may be required to follow subjects given on the University campus, concurrently with training at the Hospital Laboratory.

3. A total of 128 semester hours, including the Major in Medical Technology, a related minor either in Chemistry or Biology (12 semester hours above basic courses), an unrelated minor (12 semester hours). Students are accepted for classes beginning in July. Completion of hospital training in August should not, in most cases, interfere with graduation in June.

EXPENSES

1. *Tuition*—None for students working for certificate only. Students working for the B.S. degree from the University of Dayton are required to pay the regular University tuition for the practical year, and register with the University.

2. *Maintenance*—Complete maintenance will be provided if desired. It is somewhat difficult for us to supply rooms for male students at the present time.

3. *Uniforms*—The student shall provide herself with at least six approved white uniforms, which will be laundered by the hospital, and a pair of comfortable white shoes.

4. One good textbook on clinical laboratory procedures approved by the Director of the School.

LENGTH OF COURSE

THE COURSE of instruction covers a period of 52-56 consecutive weeks. Vacation periods or leaves of absence are not provided because not desirable, but can be arranged upon necessity. The hours of duty are from 8:00 a.m. to 5:00 p.m., five and one-half days a week. Special assignments for Sunday and holiday work are given with time off during the week. There is no night call for students.

Textbook assignments and extracurricular reading and study shall be done outside the regular hours. Written and oral examinations are held at regular intervals throughout the course.

GRADUATION AND REGISTRATION

AFTER DEMONSTRATING a theoretical and practical proficiency in clinical laboratory procedures, the student is given a certificate by the Hospital, and becomes eligible for the national examination for certification by the Registry of Medical Technology.

Students who are registered at the University of Dayton are eligible for the degree of Bachelor of Science in Medical Technology.

Examinations for Registration and the Certificate of M.T. (Medical Technologist) are given in April and October by the Registry of Medical Technologists in various cities. These are comprehensive written examinations.

CURRICULUM

Freshman Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Chem. 105 Inorganic Chemistry	4
Bio. 105 Zoology	4
Math. 101 College Algebra	3
Eng. 101 English Composition	3
Rel. 101 Christian Doctrine, or	
Phil. 101 Logic	2
Phe. 101 Physical Education	1/2
Or. 101 Orientation	0

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Chem. 106 Inorganic Chemistry	4
Bio. 106 Zoology	4
Math. 102 Trigonometry	3
Eng. 221 English Literature	3
Rel. 102 Christian Morals, or	
Phil. 102 Logic	2
Phe. 102 Physical Education	1/2

Sophomore Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Chem. 201 Organic Chemistry	5
Bio. 201 Compar. Anatomy Lab. ..	1
Bio. 203 Human Anatomy	2
Phys. 201 General Physics	4
Eng. Advanced Course	3
Rel. 201 Christian Worship, or	
Phil. 205 Philosophical Psychology	2

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Chem. 202 Organic Chemistry	5
Bio. 202 Compar. Anatomy Lab. ..	1
Bio. 204 Human Anatomy	2
Phys. 202 General Physics	4
Eng. Advanced Course	3
Rel. 203 Christian Marriage, or	
Phil. 206 Philosophical Psychology	2

Junior Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Chem. 207 Qualitative Analysis	4
Bio. 305 Microtechnique	4
Bio. 401 Bacteriology	4
Bio. 303 Physiology	3
Phil. 324 Ethics	3

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Chem. 301 Quantitative Analysis	4
Bio. 306 Microtechnique	4
Bio. 402 Bacteriology	4
Phil. 482 Medical Ethics	3
Elective	3

Senior Year

<i>Subjects</i>	<i>Cr. Hours</i>
Met. 450 Intro. to Med. Technology	6
Met. 451 Urinalysis and Renal Functions	3
Met. 452 Hematology	4
Met. 453 Bacteriology, Sputum, Parasitology, Feces, and Special Fluids	4

<i>Subjects</i>	<i>Cr. Hours</i>
Met. 454 Chemistry and Gastric Analysis	6
Met. 455 Histology and Cytology ..	3
Met. 456 Serology & Spinal Fluids ..	4
Met. 457 Electrocardiography, B.M.R.	3

PROGRAM VIII

BACHELOR OF SCIENCE WITH A MAJOR IN RADIOLOGICAL TECHNIQUE

A TWELVE-MONTHS' course in Radiological Technique is offered by the Radiology Departments of Miami Valley and St. Elizabeth Hospitals. Affiliation with the University of Dayton permits a student to obtain a degree of Bachelor of Science in Radiological Technique, if the University's requirements are met. The school is approved by the Council on Medical Education and Hospitals of the American Medical Association and qualifies a student to take the examination given by the American Registry of X-ray Technicians.

The student receives practical and theoretical experience in diagnostic and therapeutic technique which qualifies the graduate for positions in hospitals, clinics, physicians' offices, and industrial medical departments. There are excellent opportunities for both men and women in this field.

ADMINISTRATION

GEORGE A. NICOLL, M.D., Director, Department of Radiology, Miami Valley Hospital.

HENRY SNOW, M.D., Director, Department of Radiology, St. Elizabeth Hospital.

LOUIS A. SALETET, S.M., PH.D., Head of Division of Science, University of Dayton.

FACILITIES FOR INSTRUCTION

THE RADIOLOGY DEPARTMENT makes X-ray examinations, when requested, of hospital patients and of others. Approximately 16,000 examinations and 3,000 X-ray treatments are made annually. Completely adequate, modern, shock-proof, X-ray equipment is available.

METHODS OF INSTRUCTION

INSTRUCTION CONSISTS of a series of lectures in the theoretical principles of X-ray technique and in their practical applications. Assignments are given in appropriate textbooks and periodicals. Extensive supervised, practical applications of the principles are made. Regular monthly examinations are given, with a final examination upon completion of the course.

ENTRANCE REQUIREMENTS

APPLICATIONS MAY BE made in person or by letter. A personal interview is advisable. Applicants should present the following qualifications for admission to the courses given at the Hospitals:

A. FOR A CERTIFICATE:

Two years of college work are required, followed by one year at Miami Valley or St. Elizabeth Hospital. The college work, preferably, includes the following courses:

		<i>Cr. Hours</i>
Mathematics:	College Algebra	3
	Plane Trigonometry	3
Chemistry:	General Inorganic	6
Physics:	General Physics	10
English:	Composition	3
	Theme Writing	3
Biology:	General Biology	8
	Human Anatomy	4
	Human Physiology	3

B. FOR A BACHELOR OF SCIENCE DEGREE IN RADIOLOGICAL TECHNIQUE:

Three years of college work are required, followed by one year at Miami Valley or St. Elizabeth Hospital.

Preference will be given to those students who are interested in the degree program. Classes begin in January and July. The year of practical training at the Hospital covers a period of twelve consecutive months. Vacations and leaves of absence are not scheduled but may be arranged. The hours of duty are from 8 a.m. to 5 p.m., five and one-half days per week. There is no Sunday duty. One meal is provided by the Hospitals daily. Complete maintenance is available in a hospital residence at the cost of \$50.00 per month.

CURRICULUM

Freshman Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Rel.	101 Christian Doctrine, or		Rel.	102 Christian Morals, or	
Phil.	101 Logic	2	Phil.	102 Logic	2
Eng.	101 English Composition	3	Eng.	221 English Literature	3
Math.	115 Math. Analysis	5	Math.	116 Math. Analysis	5
Bio.	101 General Biology	4	Bio.	102 General Biology	4
Mil.	101 First Basic Military	1½	Mil.	102 First Basic Military	1½
Phe.	101 Physical Education	½	Phe.	102 Physical Education	½
			Phys.	206 Mechanics and Sound	4

Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Rel.	201 Christian Worship, or		Rel.	203 Christian Marriage, or	
Phil.	205 Philosophical Psychology 2		Phil.	206 Philosophical Psychology 2	
Bio.	203 Human Anatomy	2	Bio.	204 Human Anatomy	2
Bio.	201 Comp. Anatomy Lab.	1	Bio.	202 Comp. Anatomy Lab.	1
Math.	201 Calculus	4	Math.	202 Calculus	4
Phys.	207 Electricity & Magnetism 4		Phys.	208 Heat and Light	4
Mil.	201 Second Basic Military	1½	Mil.	202 Second Basic Military	1½
E.E.	201 Elem. of Elect. Engr.	4	Eng.	Advanced Course	3

Junior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
E.E. 305	Altern. Current Circuits	4	E.E. 312	Engineering Electronics	4
Bio.	Advanced Course	3	Bio.	Advanced Course	3
Phil. 324	Ethics	3	Phil. 482	Medical Ethics	3
	Electives	6		Electives	6

*Senior Year**At Miami Valley or St. Elizabeth Hospital*

<i>Subjects</i>	<i>Weeks</i>	<i>Cr. Hours</i>
Radiological Physics	6	3
The X-ray Machine	6	3
Processing of X-ray Films	2	2
Routine Standard Positioning	12	8
Special Examinations (Opaque Material)	10	6
Fluoroscopic Procedure	4	2
Radiation Therapy	12	8

PROGRAM IX

NURSING AND NURSING EDUCATION

THE UNIVERSITY OF DAYTON offers two plans to nurses and prospective nurses who wish to secure a degree.

Plan I. Five Year Combined Program

THIS PROGRAM leads to one of the following degrees: Bachelor of Science, Bachelor of Science in Nursing, or Bachelor of Science in Nursing Education. The program is offered: a) to nurses who complete two years at the University of Dayton after the three year professional course in Nursing at a properly accredited institution; and b) to students who complete the three year professional course in nursing at St. Elizabeth Hospital School of Nursing after two years' successful work at the University of Dayton. Sixty credit hours are allowed toward the degree for the basic professional course in nursing.

A minimum of 128 credit hours are required for the degree. They must include:

1. Basic professional course in nursing 60 credit hours
2. A minimum of 42 academic or non-professional credits in the following subjects:

English	12 credit hours
Philosophy	6 credit hours
Psychology	6 credit hours
History and Social Sciences	12 credit hours
Natural Science	6-8 credit hours
Electives	24-26 credit hours

The electives, including Education and Nursing Education, should be chosen according to the special requirements of the degree desired:

- a. For the degree of Bachelor of Science, 10-12 additional hours in Biology or Chemistry are required.
- b. For the degree of Bachelor of Science in Nursing, 8 additional hours in Nursing Education are required. Survey courses and those giving a broad knowledge of nursing and its various fields are recommended.
- c. For the degree of Bachelor of Science in Nursing Education, 9-12 hours in Education and 18-20 hours in Nursing Education are required. Courses in supervision, administration, and the major fields of interest are recommended. Supervision and teaching in these latter fields are desirable.

Students who meet the requirements for the degree of Bachelor of Science in Nursing Education may become eligible for a Provisional Teacher's Certificate which will entitle them to teach in the fields for which they qualify. This will permit them to teach in State-accredited schools. Those who are interested in obtaining the Provisional Teacher's Certificate should make the fact known at registration so that they may be properly directed in drawing up their schedule of courses.

Plan II. Four Year Academic-Basic Professional Curriculum

THIS CURRICULUM leads to the degree of Bachelor of Science in Nursing and the diploma in Nursing. It is designed to give the student a cultural background in higher education and the basic course in the theory and practice of nursing. Through the combination of academic and professional courses, the University provides the opportunity for students to further their cultural development and to attain professional competence. Clinical experience is provided at St. Elizabeth Hospital and affiliating institutions. This curriculum prepares the graduates for first level positions in the various health and hospital fields and for advanced work in the area of specialization.

CURRICULUM

Freshman Year

FIRST SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Rel. 101 Christian Doctrine, or	
Phil. 101 Logic	2
Eng. 101 English Composition	3
Chem. 100 Inorganic Chemistry	5
Bio. 103 Zoology	4
Phe. 101 Physical Education	1/2
Ned. 120 Professional Adjust. I	1
Ned. 141 Intro. to Nursing Arts	1

SECOND SEMESTER

<i>Subjects</i>	<i>Cr. Hours</i>
Rel. 102 Christian Morals, or	
Phil. 102 Logic	2
Eng. 221 English Literature	3
Chem. 200 Organic Chemistry	5
Bio. 121 Anatomy and Physiology 3	
Phe. 102 Physical Education	1/2
Bio. 123 Microbiology	3
Ned. 142 Intro. to Nursing Arts	1

Summer Session

<i>Subjects</i>	<i>Cr. Hours</i>
Soc. 201 General Sociology	3
Ned. 143 Intro. to Nursing Arts	2
Ned. 121 History of Nursing	2

Sophomore Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Rel. 201	Christian Worship, or		Rel. 203	Christian Marriage, or	
Phil. 205	Philosophical Psychology	2	Phil. 206	Philosophical Psychology	2
Spe. 101	Fund. of Eff. Speaking	3	Psych. 201	Introd. Psychology	3
Phe. 201	Physical Education	1/2	Phe. 202	Physical Education	1/2
Bio. 122	Anatomy and Physiology	3	Ned. 127	Intro. to Medical Science	2
Ned. 124	Nutrition, Foods and		Ned. 129	Pharmacology and	
	Cookery	3		Therapeutics	4
Ned. 128	Elem. Pharmacology	1	Ned. 220	General Medical and	
Ned. 144	Intro. to Nursing Arts	3		Surgical Nursing	3
			Ned. 145	Intro. to Nursing Arts	3

Summer Session

<i>Subjects</i>	<i>Cr. Hours</i>
Soc. 211 Social Problems in Nursing Service	2
Ned. 125 Diet Therapy	2
Ned. 221 General Medical and Surgical Nursing	2

Junior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Hist. 251	Amer. Hist. to 1865	3	Phil. 482	Medical Ethics	3
Psych. 306	Child Psychology	3	Soc. 312	Social Case Work	3
Bio. 350	Epidemiology	3	Ned. 224	Medical and Surgical	
Ned. 222	General Medical and			Specialties	4
	Surgical Nursing	3	Ned. 320	Obstetrics	4
Ned. 327	First Aid	2			
Ned. 223	Medical and Surgical				
	Specialties	4			
Ned. 123	Geriatrics	1			

Summer Session

<i>Subjects</i>	<i>Cr. Hours</i>
Ned. 322 Pediatric Nursing	4

Senior Year

FIRST SEMESTER			SECOND SEMESTER		
<i>Subjects</i>		<i>Cr. Hours</i>	<i>Subjects</i>		<i>Cr. Hours</i>
Eng. Elective	in English	3	Ned. 323	Psychiatric Nursing	4
Psych. 202	Education Psych. I	3	Ned. 325	Nursing and Health	
				Service in the Family	2

Summer Session

<i>Subjects</i>	<i>Cr. Hours</i>
Ned. 326 Professional Adjust. II	2
Ned. 328 Advanced Nursing and Experience	1

NOTE: For students who enter with advanced standing, the curriculum is planned in accord with amount of work completed before entrance.

COURSES OF INSTRUCTION

ACCOUNTING (Acct.)

MR. SPRINGER, ACTING HEAD

MR. UPDYKE

ACCT. 101-102. ELEMENTARY ACCOUNTING SIX CREDIT HOURS

The purpose of the course is to acquaint the student with the primary function of accounting and to introduce him to the entire cycle of bookkeeping procedure. Under supervision the student is required to demonstrate his ability to work out several practice sets. This is a prerequisite to all other courses in Accounting. Two class periods and two laboratory periods a week.

Both 101 and 102 Each Semester, Each Year

ACCT. 201-202. INTERMEDIATE ACCOUNTING SIX CREDIT HOURS

The accounting work of the sophomore year is a logical continuation and development of the theory and practice introduced in the freshman year. The course includes in part: accounting for corporations; voucher systems; general principles of valuation; depreciation; surplus reserves; and liquidation of corporations. Two class periods and two laboratory periods a week.

Full Year Course, Each Year

ACCT. 203. SURVEY OF ACCOUNTING THREE CREDIT HOURS

A consideration of the basic principles of accounting, including debits and credits, the balance sheet, the statement of profit and loss, the statement of surplus and elements of cost accounting from an interpretative viewpoint. Three class periods a week.

Each Semester, Each Year

ACCT. 301-302. ADVANCED ACCOUNTING SIX CREDIT HOURS

Additional training in the preparation, analysis, and interpretation of statements; accounting procedure in connection with special types of business and with corporate reorganizations and dissolutions including the accounts and reports of receivers and trustees. Three class periods a week.

Full Year Course, Each Year

ACCT. 303-304. COST ACCOUNTING SIX CREDIT HOURS

Theory and practice of industrial cost accounting as a means of control of business enterprises applicable to job order, process, and standard cost systems. Three class periods a week.

Full Year Course, Each Year

ACCT. 310. COST ACCOUNTING ANALYSIS THREE CREDIT HOURS

Elements of cost accounting; methods of analyzing and interpreting cost data for management's use. Cost accounting and cost data are emphasized as an aid to management and not a mechanical substitute for management. Three class periods a week.

First Semester, Each Year

ACCT. 401-402. AUDITING SIX CREDIT HOURS

A review of accounting with particular attention given to the theory and prac-

tice of auditing as applied to cash, receivables, inventories, etc. Practice in the auditing of special business types, and the preparation of auditor's reports. Three class periods a week. *Full Year Course, Each Year*

ACCT. 403. FEDERAL INCOME TAX ACCOUNTING THREE CREDIT HOURS
An interpretation of the current Revenue Act, including income, estates and trust, gift and excise taxes. The preparation of the individual, partnership and corporation income tax returns. Three class periods a week.

First Semester, Each Year

ACCT. 404. C. P. A. PROBLEMS THREE CREDIT HOURS
The application of the principles of accounting to specific problems as set forth in the examination of the Ohio State Board of Accountancy. Three class periods a week.

Second Semester, Each Year

ACCT. 406. PAY ROLL ACCOUNTING THREE CREDIT HOURS
An interpretation of the Federal Social Security Act and the Unemployment Insurance Acts of the various states (particularly Ohio). A study of the accounting procedure pertaining thereto. Three class periods a week.

Each Semester, Each Year

ART (Art)

MR. BURROUGHS

THE DAYTON ART INSTITUTE is affiliated with the University of Dayton. Students enrolled in the University may fulfill requirements for the degrees of Bachelor of Arts with a major in Art, Bachelor of Science in Art Education, and Bachelor of Fine Arts. The academic program for these degrees must be completed at the University. All professional art subjects are taught at the School of the Dayton Art Institute.

All prescribed courses in Art required for the Elementary Certificate by students in the Division of Education are taught at the University by instructors of the Dayton Art Institute.

All work in Art applied to the degrees of Bachelor of Arts with a major in Art, Bachelor of Science in Art Education, and Bachelor of Fine Arts must be evaluated by the Dean of the School of the Dayton Art Institute.

ART 101. DRAWING TWO CREDIT HOURS
A study of the elements of drawing, including perspective, drawing from still life, light and shade and sketching. Two class periods a week.

First Semester, Each Year

ART 103. INTRODUCTORY PAINTING I TWO CREDIT HOURS
Painting in oil and water color from still life, landscape and floral subjects. Emphasis is placed on composition and application of art theories.

First Semester, Each Year

ART 104. INTRODUCTORY PAINTING II**TWO CREDIT HOURS**

A further study of painting problems with reference to technique and methods of procedure in building a painting. Prerequisite: Art. 103 or its equivalent.

First Semester, Each Year

ART 107. CULTURAL HISTORY OF EUROPE TO 1830 **THREE CREDIT HOURS**

A brief review of pre-historic and Oriental art to prepare the ground for a study of modern art. Then a more intensive survey of the basic arts of architecture, painting, sculpture and music through the various movements in Europe and America: the Greek and Roman; the Byzantine and Saracenic; the Romanesque and Gothic; the Renaissance; the Baroque, the Rococo and the Neo-Classic. Accredited in History.

First Semester, Each Year

ART 108. CULTURAL HISTORY OF EUROPE SINCE 1830 **THREE CREDIT HOURS**

After a brief survey of the basic principles underlying all the arts, and their application to daily life, an intensive study of the Romantic, Realistic and Impressionistic movements, together with a study of the various Modern movements since 1900. Accredited in History.

Second Semester, Each Year

ART 201. PRINCIPLES OF DESIGN I**TWO CREDIT HOURS**

A study of the underlying elements and principles of design as they are applied to surface pattern. Color theories and their use in creative design are a part of this course.

Second Semester, Each Year

ART 202. PRINCIPLES OF DESIGN II**TWO CREDIT HOURS**

Advanced studies in creative design and their application to modern materials and to industry. Prerequisite: Art 201 or its equivalent.

Second Semester, Each Year

**ART 221. PRACTICAL ARTS IN THE KINDERGARTEN
AND PRIMARY GRADES****TWO CREDIT HOURS**

Creative expression in the use of such materials as papers, textiles, ceramics, and plastics. A study of handwork as an integral part of activities in the schools.

Second Semester, Each Year

ART 222. PRACTICAL ARTS IN THE INTERMEDIATE GRADES **TWO CREDIT HOURS**

Same as Art 221, adjusted to the maturity of children in the intermediate grades.

Second Semester, Each Year

ART 407. ART IN THE ELEMENTARY SCHOOL**TWO CREDIT HOURS**

Present methods of teaching art in the elementary school; experience in art expression and the use of art elements and principles as the basis for creative approach; organization of units of work, including drawing, painting, design, color, modeling, block printing, lettering, and the mural, as they relate to the integrated school program.

Second Semester, Each Year

BIOLOGY (Bio.)**BRO. JOLY, HEAD****BRO. BECK, MR. FASO, MISS HECKMAN, DR. WILLIAMS****MR. WIECHMAN****BIO. 101-102. GENERAL BIOLOGY** **EIGHT CREDIT HOURS**

A study of the more important plant and animal forms, designed to fit the facts and theories of biology into the broader picture of human life and human affairs. Three class periods and one laboratory period a week.

Full Year Course, Each Year

BIO. 103. GENERAL ZOOLOGY **FOUR CREDIT HOURS**

Lectures on structure, physiology, and life histories of invertebrates and vertebrates. Three class periods and one laboratory period a week.

First Semester, Each Year

Second Semester, 1952-1953—Evening

BIO. 105-106. GENERAL ZOOLOGY **EIGHT CREDIT HOURS**

A course insisting on general principles. Lectures are given on the classification, structure, physiology, development, and life histories of the invertebrates and vertebrates. Two class periods and two laboratory periods a week.

Full Year Course, Each Year

BIO. 201-202. COMPARATIVE ANATOMY **EIGHT CREDIT HOURS**

A study of the similarities and the differences in the anatomy of the different organ systems of the various vertebrate groups. Embryology, histology, and morphology play an important role in this comparative study. Physiology is introduced where it is deemed advisable. Three class periods and one laboratory period a week.

Full Year Course, Each Year

BIO. 203-204. HUMAN ANATOMY **FOUR CREDIT HOURS**

Lectures and demonstrations on the bones, muscles, vessels, and nerves of the human body. This course is primarily for students in Physical Education. Two class periods a week.

Full Year Course, Each Year

BIO. 213. COMPARATIVE ANATOMY **FOUR CREDIT HOURS**

A short course patterned after Bio. 201-202.

First Semester, 1952-1953—Evening

BIO. 303. PHYSIOLOGY **THREE CREDIT HOURS**

A course showing that the human body is a living mechanism. Sufficient anatomy and histology are introduced to give at least an elementary knowledge of the structures of the organs and the organ systems. Three class periods a week.

Each Semester, Each Year

BIO. 305-306. MICROTECHNIQUE **EIGHT CREDIT HOURS**

This course is essentially for medical technology and biology majors. It includes fixing, washing, dehydrating, clearing, infiltrating, imbedding, sectioning, affix-

ing of normal tissues. It also aims at recognition of the fundamental tissues and gives the histological picture of all the organs and organ systems of the vertebrate body. Two class periods and two laboratory periods a week.

Full Year Course, Each Year

BIO. 311. GENERAL GENETICS

THREE CREDIT HOURS

A study of the principles of variation and heredity in plants and animals, with stress on the inheritance of human characteristics. Three lecture periods a week.

Second Semester, Each Year

BIO. 314. GENERAL BOTANY

FOUR CREDIT HOURS

An introductory course stressing classification, morphology, physiology, reproduction, ecology, and distribution of plants. Typical specimens are studied microscopically and macroscopically. Three class periods and one laboratory period a week.

First Semester, Each Year

BIO. 315. SYSTEMATIC BOTANY

THREE CREDIT HOURS

Illustrative plant types are discussed, assigned forms are studied, and assigned readings are required, so that the student will have a grasp of the fundamental principles of phylogenetic taxonomy. The use of herbaria, indexes, and keys will be taught. The families of the spermatophyta are given special attention. Field trips necessary. Three lectures a week.

Second Semester, Each Year

BIO. 350. PREVENTIVE MEDICINE

TWO CREDIT HOURS

The development of the science of public health, and the prevention of disease from the standpoint of the individual and the community.

First Semester, 1953-1954

BIO. 351. EPIDEMIOLOGY

TWO CREDIT HOURS

The occurrence of the more common communicable diseases, their methods of transmission, and the control of reservoirs between periods of activity.

Second Semester, 1953-1954

BIO. 401-402. GENERAL BACTERIOLOGY

EIGHT CREDIT HOURS

The history, morphology, physiology, classification, and cultivation of bacteria are studied. Their relation to medicine, to sanitary science, and to agriculture is also stressed. Two class periods and two laboratory periods a week.

Full Year Course, Each Year

BIO. 403-404. EMBRYOLOGY

SIX CREDIT HOURS

The course gives the student a clear understanding of the early stages of development of the invertebrates and the vertebrates. It pays special attention to the study of the development of the chick and of the pig. Two class periods and one laboratory period a week.

To be announced

BIO. 405-406. BIOPHYSICS

FOUR CREDIT HOURS

The course applies physical and chemical principles to the following biological problems: stress and strain in biologic systems, surface tension, osmosis, mem-

branes, colloids, cells, dynamics of cell division and growth, bio-hydraulics, heat production, calorimetry, sound production and reception, electric phenomena in cells and tissues, diatherms, artificial fevers, effects of radiant energy on biological materials, spectrographic methods of investigation, treatment of tumors with X-rays, and the production of vitamins. Two class periods a week.

Full Year Course, Each Year

BIO. 407. EMBRYOLOGY

FIVE CREDIT HOURS

The course gives the student a clear understanding of the early stages of development of the invertebrates and the vertebrates. It pays special attention to the study of the development of the chick and of the pig. Three class periods and two two-hour laboratory periods a week.

Second Semester, 1952-1953

BIO. 413. GENERAL BACTERIOLOGY

FOUR CREDIT HOURS

A brief course covering the physiology, classification, and cultivation of bacteria. Their relation to medicine and agriculture is stressed. Isolation and microscopic observations of pathogenic germs; theories of immunity and immunization; training in clinical serological methods. Two class periods and two laboratory periods a week.

First Semester, 1952-1953

First Semester, 1952-1953—Evening

BIO. 415. PATHOGENIC BACTERIOLOGY

FOUR CREDIT HOURS

A brief survey of pathogenic organisms, including their classification, cultural characteristics, biochemical and physiological reactions. Isolation and identification of unknowns; demonstration of and limited training in clinical serological methods as related to pathogens included in course. Two class periods and one laboratory period a week.

Second Semester, 1952-1953—Evening

BIO. 420. SEMINAR

ONE CREDIT HOUR

Practice in development, presentation, and discussion of papers dealing with biological problems.

Second Semester, Each Year

BUSINESS ORGANIZATION (Bus.)

MR. E. O'LEARY, HEAD

MR. COMER, MR. MURPHY, MR. SNYDER

Concentration Recommendations

MAJOR: Minimum of thirty hours of upper division courses are required of students majoring in business organization. These courses should include 301, 303, 305, 313, 316, 317, 404, 405, 425. A minimum of two additional closely related courses is also required. These courses are to be selected in consultation with the Department Head. A related minor is to be selected in the fields of economics, philosophy, political science, psychology or sociology.

Accounting 101-102 and Economics 201-202 are prerequisite to all advanced courses except by permission of the instructor.

Students preparing for teaching positions in secondary schools should consult their adviser in the selection of required courses.

BUS. 101. INTRODUCTION TO BUSINESS **THREE CREDIT HOURS**

A survey of the fields of business and their inter-relationships. The uses and functions of production and distributive systems, capital, labor, finance, accounting, statistics, marketing, etc., are studied. The objectives are to emphasize business concepts and to prepare the students for specialized courses. Three class periods a week.

Each Semester, Each Year

BUS. 102. INDUSTRIAL RESOURCES AND PRODUCTS **THREE CREDIT HOURS**

A survey of major industries, their raw materials, processing, distribution, and marketing factors. Three class periods a week.

Each Semester, Each Year

BUS. 103. MATHEMATICS OF FINANCE I **THREE CREDIT HOURS**

This course covers the fundamentals of second year of high school algebra and continues into topics of college algebra. Logarithms, ratio and proportion, with application to problems in business and finance, are stressed. Three class periods a week.

Each Semester, Each Year

BUS. 201. BUSINESS MACHINES **THREE CREDIT HOURS**

Proposes to give students the opportunity to become acquainted with and to use correctly the machines commonly found in offices today. Such machines include the two principal types of adding machines, two principal types of calculators, and a variety of accounting mechanisms. Recommended prerequisite: Acct. 101. Laboratory fee, \$5.00.

Each Semester, Each Year

BUS. 203. MATHEMATICS OF FINANCE II **THREE CREDIT HOURS**

A study of the essential mathematical problems helpful to business men; interest, logarithms, ordinary annuities, time payment plans, amortization and sinking funds, valuation of bonds, and mathematics of life insurance. Three class periods a week.

Each Semester, Each Year

BUS. 301. CORPORATION FINANCE **THREE CREDIT HOURS**

Principles of financial organization and management. A study of business organizations, corporate securities, financial structures; financing of new and established corporations; management of corporate funds; corporate expansion; mergers, failures and reorganizations; security exchanges, financial markets and government regulation of financial institutions and practices. Three class periods a week.

Each Semester, Each Year

BUS. 303. BUSINESS LAW CONTRACTS **THREE CREDIT HOURS**

The basic course in business law treating the nature and the classification of law, the courts and court procedure, and considering in some detail the law of contracts, sales, agency, and personal property. Three class periods a week.

Each Semester, Each Year

BUS. 304. BUSINESS LAW REAL PROPERTY AND NEGOTIABLE INSTRUMENTS **THREE CREDIT HOURS**

A consideration of the law of real property, real estate mortgages, landlord and

tenant, mechanics' lien, deed and conveyances and the law of negotiable instruments. Three class periods a week. *Second Semester, Each Year*

BUS. 305. PRINCIPLES OF MARKETING **THREE CREDIT HOURS**

The general principles and practices underlying the processes of marketing. An analysis of the problems of the manufacturer, wholesaler, retailer and other marketing agencies. Principles, trends, methods and policies with relation to marketing efficiency. Three class periods a week. *Each Semester, Each Year*

BUS. 306. ADVANCED MARKETING **TWO-THREE CREDIT HOURS**

The marketing policies of manufacturers and wholesalers; the technique of marketing research; and analysis of current problems and literature relating to marketing efficiency. Three class periods a week. *Each Semester, Each Year*

BUS. 307. ADVERTISING **THREE CREDIT HOURS**

Nature and functions of advertising; the preparation of layouts, the writing of copy; selection and evaluation of media. The coordination of advertising with other marketing efforts. Social implications of advertising are discussed. Three class periods a week. *Each Semester, Each Year*

BUS. 308. ADVERTISING PROBLEMS **THREE CREDIT HOURS**

An intensive study of special problems in advertising. Emphasis is placed on such topics as preparation of copy, methods of printing and engraving, layout of advertisements, effectiveness of position, use of media, current trends of advertising. Three class periods a week. *Second Semester, Each Year*

BUS. 309. RETAIL MERCHANDISING **THREE CREDIT HOURS**

Surveys basic merchandising principles and problems of large and small retail stores. Includes organizations, location, buying and selling, cost reductions, current practices and trends. *Each Semester, Each Year*

BUS. 310. SALESMANSHIP **THREE CREDIT HOURS**

A study of the basic principles underlying all selling and their practical application to specific cases. Topics include: types of selling jobs; fundamentals of selling, sales personality, buying motives, methods and sources of acquiring product knowledge; planning the sale; selling techniques, securing prospects, the approach, arousing interest, overcoming objections, closing the sale. *Each Semester, Each Year*

BUS. 311. SALES MANAGEMENT **THREE CREDIT HOURS**

The structure of the sales organization, determination of sales policies, the selection, training, and motivation of salesmen, the establishing of sales territories and quotas. Specific problems are used to illustrate and apply principles. *Second Semester, Each Year*

BUS. 312. PRINCIPLES OF INTERNATIONAL TRADE **THREE CREDIT HOURS**

Principles and procedures in exporting and importing. Export and import organ-

ization, market analysis, handling shipments, packing, customs, and current practices. Three class periods a week. *Each Semester, Each Year*

BUS. 313. BUSINESS STATISTICS **THREE CREDIT HOURS**

A survey of statistical methods including sampling, tabulations, graphics, averages, dispersions, index numbers, time series, trends, and simple correlations. Three class periods a week. Laboratory fee, \$3.00. *Each Semester, Each Year*

BUS. 316. INDUSTRIAL MANAGEMENT **THREE CREDIT HOURS**

Nature and place of management, and factors underlying management decisions; product designs, physical facilities, location and layout; job evaluation and classification; plant operation and output; control of purchases and inventories. Problems of production control and coordinating factory operations. Three class periods a week. *Each Semester, Each Year*

BUS. 317. LABOR MANAGEMENT **THREE CREDIT HOURS**

Nature and development of the labor problem; selection; training and supervision of labor; wage practices; methods of wage payment; promotion and transfer policies; layoffs; employee morale; current practices in labor management relations. Three class periods a week. *Each Semester, Each Year*

BUS. 319. JOB EVALUATION AND WAGE DETERMINATION **THREE CREDIT HOURS**

Job evaluation methods; determining requirements of jobs; establishing grade levels; development of basic rates, salary classifications and performance ratings. Three class periods a week. *First Semester, Each Year*

BUS. 320-321. MOTION AND TIME STUDY **SIX CREDIT HOURS**

A study of the methods and apparatus used in achieving and perpetuating operation standardization. A study of motion and time of workers with the objective of increasing efficiency and enlarging production. Three class periods a week. *Full Year Course, Each Year*

BUS. 324. LABOR LEGISLATION **THREE CREDIT HOURS**

The development, constitutional aspects, and practical effects of Federal and State legislation with respect to child labor, wages, hours, conditions of employment, industrial accidents, social security, civil and criminal liability and labor relations. Prerequisites: Bus. 316, 317, or permission of instructor. Three class periods a week. *Each Semester, Each Year*

BUS. 327. ELEMENTS OF SUPERVISION **THREE CREDIT HOURS**

A consideration of the responsibilities of the shop or department head within the field of operative management; emphasis on training, motivation, grievances and maintenance of morale in the light of sound management principles. An exposition of accepted solutions to present day problems. Three class periods a week. *Second Semester, Each Year*

BUS. 331-332. OFFICE MANAGEMENT AND OFFICE METHODS AND IMPROVEMENT **SIX CREDIT HOURS**

The organization and management of an office and the functions of those in

supervisory work. Planning, organizing and control of office work and personnel; problems of office standards, business forms and designs; analysis of office methods and procedures in relation to purchase, production and distribution. Three class periods a week.

Full Year Course, Each Year

BUS. 401. INVESTMENTS

THREE CREDIT HOURS

A study of the basic features and principles underlying sound investments. The discussions include an analysis and evaluation of government, municipal, railroad, public utility, industrial, financial, and real estate securities. Problems and trends are emphasized. This course is a continuation of Bus. 301 but may be elected by qualified students with consent of the instructor. Three class periods a week.

Second Semester, Each Year

BUS. 402. CREDITS AND COLLECTIONS

TWO-THREE CREDIT HOURS

Nature and functions of credit. Principles and practices in retail and mercantile credit administration. Sources and analysis of credit information. Two or three class periods a week.

Second Semester, Each Year

BUS. 403. LAW OF BUSINESS ORGANIZATION AND SECURITY RELATIONS

THREE CREDIT HOURS

A treatment of the characteristics of partnerships and corporations and of the law of chattel mortgages, conditional sales, suretyship and insurance. Three class periods a week.

Second Semester, Each Year

BUS. 404. BUSINESS CYCLES

THREE CREDIT HOURS

Characteristics and economic consequences of business cycles. Analysis of causes and theories of business cycles. Examination of the proposals for eliminating or for controlling the business cycle. Some attention is given to the barometers and measurements of business cycles. Three class periods a week.

First Semester, Each Year

BUS. 405. MONEY, CREDIT AND BANKING

THREE CREDIT HOURS

A survey of concepts, principles and practices in the field of money, credit and banking. Considerations of monetary systems, foreign exchange, credit instruments and the principal types of modern financial institutions. Special attention to the commercial bank and its relation to the federal reserve system. Emphasis upon the social and management viewpoint. Three class periods a week.

Each Semester, Each Year

BUS. 406. MONEY, CREDIT AND BANKING

THREE CREDIT HOURS

A study of the problems and policies of commercial banks. The policies and operation of central banks particularly the federal reserve banks, in relation to commercial banks, business, the Treasury and financial markets. Problems of credit control, monetary stabilization, and banking regulations and reform. Current banking practices and trends are emphasized and discussed. This course follows Bus. 405. Three class periods a week.

Second Semester, Each Year

BUS. 414. INDUSTRIAL PURCHASING THREE CREDIT HOURS
Principles, policies, and practices of industrial procurement. Organization and functions; purchasing procedure; quality and quantity control; supply sources; price policies; forward buying; legal aspects of purchasing procedure. Three class periods a week.
First Semester, Each Year

BUS. 415. PRODUCTION METHODS AND CONTROL THREE CREDIT HOURS
Principles and techniques used in production; current practices in production planning, routing, scheduling and dispatching; study of production standards, labor efficiency and costs; quantity and quality control. Three class periods a week.
Second Semester, Each Year

BUS. 416. WORK SIMPLIFICATION THREE CREDIT HOURS
A study of the methods of eliminating useless effort; developing short cuts; reducing costs; increasing production with less effort; job efficiency. Three class periods a week.
Second Semester, Each Year

BUS. 419. COLLECTIVE BARGAINING, MEDIATION AND ARBITRATION THREE CREDIT HOURS
Meaning, practices, principles and organization of collective bargaining; techniques of mediation and agencies for effecting mediation; major economic problems involved in the adjustment of labor disputes. Three class periods a week.
Second Semester, Each Year

BUS. 421. THEORY OF ORGANIZATION THREE CREDIT HOURS
A review of the development of improved administrative methods in industry and commerce and their contribution to the field of higher wages and lower costs. Works of Taylor, Fayol, Emerson, Davis, Urwick, Mooney and others are examined; stress is placed upon the development of effective organization and operation through the application of the principles of scientific management. Three class periods a week.
Second Semester, Each Year

BUS. 422. COUNSELING TECHNIQUES TWO-THREE CREDIT HOURS
Functions of counselors in employee adjustment in personnel and in industrial relations; establishing counseling services, organizing and administering a program; evaluation and remedial action. Two-three class periods a week.
First Semester, Each Year

BUS. 425. BUSINESS ORGANIZATION SEMINAR TWO CREDIT HOURS
A study of special problems of current importance and of interest to the group. The class meetings consist of individual reports and discussions. Two class hours a week.
Each Semester, Each Year

RETAILING (Ret.)

The programs in this field are designed to

- (a) prepare students for merchandising and sales departments of manufacturing and wholesale establishments,
- (b) train students for executive positions in Retailing,

- (c) offer specialized courses in Retailing to those who can benefit from them.

Retailing is becoming a more complicated business each year. If a person is to make the most of the opportunities offered, he must possess adequate knowledge and training in various functions of Retailing, such as, merchandising, operations and sales promotion.

The co-operative program leading to a Major in Retailing is designed to train students properly for an executive career in Retailing. It offers classroom theory and emphasizes its practical applications. In conjunction with the Dayton Retail Merchants Association, the student obtains experience through a supervised work program in downtown stores.

Thus with the aid of those who have both studied and practiced sound principles of Retailing, the student avoids the trial and error method of jobs and learning, and can make rapid progress towards an executive career.

The University of Dayton offers either a Major or a Minor in Retailing.

RET. 305. INTRODUCTION TO RETAILING **THREE CREDIT HOURS**

Presents the opportunities in retailing, the marketing institutions, functions, and costs, the background and development of retailing, retail institutions of today, retail store policies, the development of the consumer, governmental regulations of marketing. Open to Retailing students in lieu of Bus. 305.

First Semester, Each Year

RET. 307. RETAIL ADVERTISING **THREE CREDIT HOURS**

Designed to provide a working knowledge of retail advertising, its purpose and scope. Includes organization and procedure of the advertising department; the preparation of an advertisement; formulation of an advertising plan; types of retail advertising; the writing of copy and headlines, layout, illustrations, type and other components; evaluation and selection of media.

First Semester, Each Year

RET. 310. RETAIL SALESMANSHIP **THREE CREDIT HOURS**

Responsibilities of the sales-person; retail selling techniques, meeting the customer, developing the sales presentation, obtaining conviction, how to make the merchandise speak for itself, increasing the average sale. Students have the opportunity to analyze practical selling situations and to participate in demonstration sales.

First Semester, Each Year

RET. 311. RETAIL SALES PROMOTION **THREE CREDIT HOURS**

An analysis of the scope and activities of sales promotion; where, when and what to promote; budgeting and planning of sales promotion, events and activities; emphasis upon the coordination of sales promotion activities. Prerequisite: Ret. 307 or consent of instructor.

Second Semester, Each Year

RET. 316. TEXTILES **THREE CREDIT HOURS**

Recognition of fabrics with emphasis on appropriate use, care, and serviceability factors. Intended to enable those concerned with buying and selling to identify

fabrics and to help them in the selection of ready-to-wear and household textiles. Three class periods a week.

First Semester, Each Year

RET. 318. RETAIL PERSONNEL RELATIONS **THREE CREDIT HOURS**

Evaluation of personnel problems and policies; planning manpower needs, job analysis and evaluation, sources of labor supply, selection and placement, training plans and procedures, personnel ratings and reviews, wages and wage stabilization, employee activities, labor relations, current legislation, supervisory techniques.

Second Semester, Each Year

RET. 319. COLOR, DESIGN AND INTERIOR DECORATION **THREE CREDIT HOURS**

The course is designed to develop judgment in selection and arrangement of well-designed furnishings in the home. Three class periods a week.

First Semester, Each Year

RET. 320. FASHIONS

TWO-THREE CREDIT HOURS

A course dealing with the principles of planning, buying, promoting, and selling fashions. Includes the fashion cycle and trends, designer influence, coordination and promotion. Two or three class periods a week.

First Semester, Each Year

RET. 405. RETAIL MERCHANDISING MATHEMATICS **THREE CREDIT HOURS**

Study of mathematical principles involved in buying and selling. Includes purchase planning, open to buy, markup, inventories-cost, retail and LIFO methods—stock turnover, and initial markup formula. Drill is provided in solving mathematical problems.

First Semester, Each Year

RET. 409. RETAILING ORGANIZATION AND OPERATION **THREE CREDIT HOURS**

Devoted to principles of store management and their application by successful stores. Such factors as store location, buildings and equipment, store organization, receiving and marking, store protection, and coordination of retail store activities are studied.

Second Semester, Each Year

RET. 414. BUYING FOR RETAIL STORES

THREE CREDIT HOURS

Covers the work of the store buyer. Considers types of buyers, organization for buying in independents and chains, determining what to buy, selection of brands, how much to buy, model stocks, market resources, resident buying, terms and dating, and buyer's order.

First Semester, Each Year

RET. 420-421. RETAILING LABORATORY

TWO CREDIT HOURS

One class hour plus a minimum of sixteen hours a week of approved work experience. Student will participate in a variety of both selling and non-selling work as provided in the training program worked out with the cooperating store. Success in the store will be evaluated by the store's supervisory personnel as well as periodic reports and assignments at the weekly class meeting. Prerequisite: consent of instructor.

Each Semester, Each Year

RET. 425. RETAILING SEMINAR**TWO CREDIT HOURS**

A thorough analysis of special problems of current importance in retailing. Class meetings consist of individual reports, student panel presentations, open class discussions and original student research projects.

Second Semester, Each Year

CHEMISTRY (Chem.)

BRO. WOTTLE, ACTING HEAD

BRO. CHUDD, MR. EVESLAGE, MRS. JOHNS, BRO. LUCIER,

MR. TARANTINO, MR. WARD, BRO. WOHLLEBEN

CHEM. 12 ELEMENTARY CHEMISTRY**NO COLLEGE CREDIT**

This is a refresher course equivalent to high school chemistry. Four class periods a week.

First Semester, Each Year

CHEM. 100. INORGANIC CHEMISTRY**FIVE CREDIT HOURS**

Fundamental principles of general chemistry, including a brief study of metals, non-metals, and their compounds. The course is designed to meet the needs of students in Home Economics and Nursing. Four class periods and one three-hour laboratory period a week.

First Semester, Each Year

CHEM. 105-106. INORGANIC CHEMISTRY**EIGHT CREDIT HOURS**

A comprehensive treatment of the fundamentals of general chemistry covering non-metals and metals, with an introduction to chemical calculations. This course is designed for students in Arts, Premedical, Predental, and Medical Technology courses. Three class periods and one three-hour laboratory period a week.

Full Year Course, Each Year

CHEM. 107. INORGANIC CHEMISTRY**FOUR CREDIT HOURS**

This course is similar to Chem. 105-106, but designed to meet the needs of engineering students and science majors. Emphasis is placed on engineering and industrial applications. Three class periods and one three-hour laboratory period a week.

Each Semester, Each Year

CHEM. 108. INORGANIC CHEMISTRY**FOUR CREDIT HOURS**

A continuation of Chem. 107. Three class periods and one three-hour laboratory period a week.

Each Semester, Each Year

CHEM. 200. ORGANIC CHEMISTRY**FIVE CREDIT HOURS**

A brief course covering the essential aliphatic and aromatic compounds. This course is designed to meet the needs of the Home Economics and Nursing students. Four class periods and one three-hour laboratory period a week.

Second Semester, Each Year

CHEM. 201-202. ORGANIC CHEMISTRY**TEN CREDIT HOURS**

This is a two-semester course designed for Medical Technicians, Premedical, and Predental students. A study of the aliphatic, aromatic, and heterocyclic

compounds, including laboratory preparations of typical compounds and the methods of identifying simple organic groups and radicals. Three class periods and one four-hour laboratory period a week. *Full Year Course, Each Year*

CHEM. 205-206. ANALYTIC CHEMISTRY **TWELVE CREDIT HOURS**

A theoretical and mathematical study of the laws that apply in qualitative analysis, including the separation and identification of some common anions and cations; theory and technique of modern gravimetric and volumetric methods, with stoichiometrical calculations and the applications of the mass action law and solubility product to quantitative analysis. Three class periods and three three-hour laboratory periods a week. *Full Year Course, Each Year*

CHEM. 207. QUALITATIVE ANALYSIS **FOUR CREDIT HOURS**

A theoretical discussion of ionization constant, solubility product, and equilibrium constants as influencing qualitative analysis. The laboratory work includes the semimicro method for the separation and identification of common anions and cations. Two class periods and one four-hour laboratory period a week. *First Semester, Each Year*

CHEM. 211-212. QUANTITATIVE ANALYSIS **EIGHT CREDIT HOURS**

Theory and technique of modern gravimetric and volumetric methods, with stoichiometrical calculations and the applications of the mass action law and solubility product to quantitative analysis. The course will provide an introduction to instrumental methods of analysis. Two class periods and two three-hour laboratory periods a week. Prerequisite: Chem. 107-108.

Full Year Course, 1952-1953—Evening

CHEM. 301. QUANTITATIVE ANALYSIS **FOUR CREDIT HOURS**

Short course intended for Premedical, Predental, and Medical Technology students. Two class periods and one four-hour laboratory period a week.

Second Semester, Each Year

CHEM. 302. PHYSICAL CHEMISTRY **FOUR CREDIT HOURS**

A short course for Premedical and Predental students. Discussion of the properties of laws of matter in its different states and in solution; chemical equilibrium; thermo-chemistry; electro-chemistry; reaction kinetics; phase rule. The laboratory work includes physicochemical methods and their applications. Three class periods and one three-hour laboratory period a week. Prerequisite: Chem. 301.

Each Semester, Each Year

CHEM. 303-304. PHYSICAL CHEMISTRY **EIGHT CREDIT HOURS**

Long course for students who wish to follow a scientific or engineering career. More comprehensive than Chem. 302, with emphasis on industrial applications. Three class periods and one three-hour laboratory period a week. Prerequisite: Chem. 205-206, Math. 201-202.

Full Year Course, Each Year

CHEM. 305-306. ORGANIC CHEMISTRY **TWELVE CREDIT HOURS**

A more intensive course than Chem. 201-202 for students who are planning for

a scientific or engineering career. Three class periods and three laboratory periods a week.
Full Year Course, Each Year

CHEM. 400. BIOCHEMISTRY **FIVE CREDIT HOURS**

A one-semester course intended to meet the needs of students in Home Economics. A study of the chemistry of the essential food constituents, their digestion, absorption, and intermediary metabolism. Four class periods and one three-hour laboratory period a week.
First Semester, 1952-1953

CHEM. 401. BIOCHEMISTRY **FIVE CREDIT HOURS**

A course intended for Premedical, Predental, and Medical Technology students. It treats the chemistry and metabolism of carbohydrates, lipids, and proteins, foods and digestion, intermediary metabolism, enzymes, acid base balance, vitamins, and hormones. Three class periods and one four-hour laboratory period a week. Prerequisite: Chem. 201-202, & Chem. 301-302.

To be announced

CHEM. 403. TECHNICAL ANALYSIS **THREE CREDIT HOURS**

This course provides training in the analytical methods needed for plant control and treats of examination of solid, liquid, and gaseous fuels, lubricants, ferrous and non-ferrous alloys, saponifiable oils, etc. Three laboratory periods a week.
First Semester, Each Year

CHEM. 412. ADVANCED ORGANIC LABORATORY **THREE CREDIT HOURS**

In this course, a study is made of the solubilities, functional groups, and derivatives of organic compounds in view of their identification and the separation of mixtures. In addition, a series of experimental problems is carried out involving organic combustions, hydrogenations, and estimations of functional groups. This work affords opportunity for originality and literature research. Three laboratory periods a week. Prerequisite: Senior standing.

Second Semester, Each Year

CHEM. 415-416. ADVANCED INORGANIC CHEMISTRY **FOUR CREDIT HOURS**

This course supplements the views of Inorganic Chemistry presented in elementary fashion in the Freshman Year. It comprises topics such as electronic distribution in atoms and ions, the Bohr Atom, types of forces resulting in compound stability, nature of the chemical bond, electron affinity and the periodic arrangement, the nucleus and its reactions, coordination compounds, systematization of the inorganic family. Two class periods a week.

Full Year Course, Each Year

CLASSICAL LANGUAGES

FR. BARTHOLOMEW, HEAD

Note: Excepting Latin 101-102, all the courses in Latin and Greek are conducted at Mt. St. John, and are restricted to student members of the Society of Mary.

LATIN (Lat.)

LAT. 101-102. ELEMENTARY LATIN **SIX CREDIT HOURS**

LAT. 103. CICERO AND LATIN COMPOSITION **THREE CREDIT HOURS**

The essays *DE AMICITIA* and *DE SENECTUTE* are studied in regard to their nature, structure, and style. Prose composition.

LAT. 105. OVID **THREE CREDIT HOURS**

Intensive readings in the "Metamorphoses" with emphasis on the influence of this mythological epic on some of the modern literatures.

LAT. 201. LIVY **THREE CREDIT HOURS**

This course comprises reading from Books I, XXI, and XXII of Livy's History and an examination of his historical method and literary form. Latin prose composition.

LAT. 202. CICERO AND PLINY: LETTERS **THREE CREDIT HOURS**

The letter as a literary form. The men and the world of the times of Cicero and Pliny are revealed by their letters.

LAT. 205. HORACE **THREE CREDIT HOURS**

Reading of selected *ODES* and *EPODES* and the *Ars Poetica* of Horace and a study of his lyric quality, workmanship and meters.

LAT. 206. ROMAN SATIRE **THREE CREDIT HOURS**

The origin and development of the Satire as a literary form with readings from Horace, Juvenal, and Persius.

LAT. 301. LATIN COMPOSITION AND CONVERSATION **THREE CREDIT HOURS**

This course aims to give future teachers of Latin an intensive review of inflections and syntax with great emphasis on fluency of expression and prose rhythm and the acquisition of a straightforward style. The class periods are conducted entirely in Latin.

LAT. 302. LATIN COMPOSITION AND CONVERSATION **THREE CREDIT HOURS**

This course aims to give future teachers of Latin an intensive review of the more involved phases of Latin syntax. The student is encouraged to acquire a smooth, rhythmic, clear prose style, and an adequate vocabulary of words and idioms for a general treatment of contemporary life. Class periods are conducted entirely in Latin.

LAT. 303. PATRISTIC LATIN **THREE CREDIT HOURS**

Confessions of St. Augustine and other selections from St. Augustine, Tertullian, St. Cyprian, Lactantius, St. Ambrose, and St. Jerome; early Christian hymns.

LAT. 304. VERGIL**THREE CREDIT HOURS**

A survey of the work of Vergil, with special attention to the literary art of the AENEID and the nature and development of the Roman epic.

LAT. 305. MEDIEVAL LATIN**THREE CREDIT HOURS**

An outline of the main course of Latin literature from about 400 A. D. to about 1500 A. D. with special attention to the classical heritage of the Middle Ages.

LAT. 307-308. READINGS IN LATIN LITERATURE**SIX CREDIT HOURS**

This course differs from Lat. 410-411 and from Lat. 303 or Lat. 305 in that it embraces the reading of excerpts from the whole of Latin literature (coming down to the present day) with oral discussion and written exercises based directly on the texts themselves and carried on entirely in Latin. There is little or no supplementary reading in English whether in the authors or about them.

LAT. 401. ROMAN THOUGHT AND INSTITUTIONS TO 14 A.D.**THREE CREDIT HOURS**

This is a lecture course covering every phase of Roman life with emphasis, wherever possible, on the legacy of other cultures to the Roman and the Roman legacy to the Western world. The lectures, discussions and examinations are preferably in Latin. A student who completes this course may be credited for either Latin or History.

LAT. 402. ROMAN THOUGHT AND INSTITUTIONS 14 A.D. TO 800 A.D.**THREE CREDIT HOURS**

A continuation of Lat. 401. The period after 400 A.D. is treated summarily but great emphasis is placed on the survival of learning throughout the early Middle Ages (to Charlemagne). Latin medium and credit as for Lat. 401.

LAT. 403. SENECA**THREE CREDIT HOURS**

A study of Seneca's philosophical style and the ethical teachings of Stoicism as revealed in his MORAL EPISTLES and ESSAYS.

LAT. 404. METHODS OF TEACHING HIGH SCHOOL LATIN**TWO-THREE CREDIT HOURS**

See Education 404.

LAT. 410. LATIN LITERATURE**TWO CREDIT HOURS**

The history of Roman literature from the origins to the Augustan age with attention to the political, economic, and social features of the period. Supplementary readings that comprise a general survey of the literature of the period.

LAT. 411. LATIN LITERATURE**THREE CREDIT HOURS**

The history of Roman literature in the Augustan and post-Augustan periods. Supplementary readings.

GREEK (Gr.)**GR. 101-102. ELEMENTARY GREEK****SIX CREDIT HOURS**

A study of the essentials of Greek grammar, with exercises in translation and

composition. Epitome of the New Testament. When this course is conducted in Latin, credit may be had in either Greek or Latin.

GR. 201-202. INTERMEDIATE GREEK SIX CREDIT HOURS

Continuation of the study of Greek grammar. Readings in standard Attic prose writers such as Xenophen, Lysias, Demosthenes, Thucydides. Prose composition. Credit as for Gr. 101-102.

GR. 203. PLATO THREE CREDIT HOURS

The Apologia is read and selections from the rest of Plato's works. Plato's contribution to the history of ideas as emphasized and illustrated through extensive supplementary reading in Jowett. Credit as for Gr. 101.

GR. 204. HOMER THREE CREDIT HOURS

Outstanding passages from the ILIAD and ODYSSEY are read with emphasis on Mycenaean culture and the minstrel's art. Prose composition. Memorization of Homeric passages. The whole of Homer is read in English. Credit as for Gr. 101.

GR. 205. THE SEPTUAGINT THREE CREDIT HOURS

Extensive readings. Comparison with the Vulgate. Excursions into the field of Biblical science. Credit as for Gr. 101.

GR. 206. THE NEW TESTAMENT THREE CREDIT HOURS

Similar to Gr. 205. Comparison of the Greek and Latin texts with modern renditions. Credit as for Gr. 101.

GR. 303. GREEK DRAMA THREE CREDIT HOURS

Reading of Sophocles' OEDIPUS REX and ANTIGONE, with a study of the origin and development of Greek drama. Credit as for Gr. 101.

ECONOMICS (Eco.)

MR. E. O'LEARY, HEAD

MR. GUERIN, MR. FECHER, MR. GUENSCHKE,

MR. MCGOVERN, BRO. NAGEL

THE OBJECTIVE of the department is to develop in the student an understanding of business institutions and an ability to analyze major economic problems occurring in the fields of labor, banking, government, etc.

Concentration Recommendation

Prerequisite: Economics 201-202.

MAJOR: Minimum of thirty hours of upper division courses are required of students majoring in Economics. These courses should include 301, 313, 402, 404, 405, 406, 408, 413, 425. A minimum of two additional closely related courses is also required. These courses to be selected in consultation with the adviser. A

related minor is to be selected in the fields of business organization, philosophy, political science, psychology, or sociology.

Economics 201-202 is prerequisite to all advanced courses except by permission of the instructor.

The following courses in business organization are credited in an economics major or minor toward the B.S. or A.B. degree:

301 Corporation Finance

313 Statistics

305 Marketing

316 Industrial Management

ECO. 104. ECONOMIC GEOGRAPHY

THREE CREDIT HOURS

This course shows the influence exerted by topography, climate, geographical position, soil, and other natural resources upon the various types of activity by means of which man gains his living. It further shows the influence of geographical factors on the forms of agricultural industry, on the extractive and manufacturing industries and on the problems involved in transportation and commerce. Three class periods a week.

Each Semester, Each Year

ECO. 201-202. PRINCIPLES OF ECONOMICS

SIX CREDIT HOURS

A general survey of the economic institutions, forces, and factors which affect the production, exchange, distribution, and consumption of wealth. Fundamental principles and concepts are emphasized. Designed for students who desire a general knowledge of economics as well as for those planning to concentrate on economics, business organization, and the social sciences. Required of all students selecting economics for a major or minor and for business administration students.

Both 201 and 202 Each Semester, Each Year

ECO. 203. SURVEY OF ECONOMICS

THREE CREDIT HOURS

A general treatment of the principles, objectives and applications of economics. Specifically a consideration of the relationship of a capitalistic economy to political democracy. Designed especially for engineers.

Each Semester, Each Year

ECO. 204. SURVEY OF ECONOMICS

THREE CREDIT HOURS

A general treatment of economics, as indicated in Eco. 203, but designed especially for students in Home Economics and in Secretarial Studies.

First Semester, Each Year

ECO. 205. AMERICAN ECONOMIC HISTORY

THREE CREDIT HOURS

An intensive study of the development of agriculture, industry, transportation, commerce, and finance against the general background of American political history and social history. Three class periods a week.

Each Semester, Each Year

ECO. 303. LABOR PROBLEMS

THREE CREDIT HOURS

The causes, extent, effects and methods of dealing with labor disturbances, past and present. Wages, hours, and conditions of work; standards of living; distribution of incomes; unemployment; old age; industrial accidents and diseases;

substandard workers; organized and unorganized labor; state and federal legislation affecting labor and industry. Three class periods a week.

ECO. 305. COMPARATIVE ECONOMIC SYSTEMS THREE CREDIT HOURS
A study of economic systems from early times to the present. The emphasis is upon the theories of socialism, fascism, communism and capitalism. Three class periods a week.
Second Semester, Each Year

ECO. 308. PRINCIPLES OF INSURANCE THREE CREDIT HOURS
A general course in underlying principles of property, marine, casualty, and life insurance. The use and functions of insurance in the life of a business and in the life of individuals. The theory and practices of insurance carriers are discussed. Three class periods a week.
Each Semester, Each Year

ECO. 309. PRINCIPLES OF LIFE INSURANCE THREE CREDIT HOURS
An intensive study of the principles and practices of life insurance; types of policies; premiums; reserves; insurance programs and government regulations. Three class periods a week.
Second Semester, Each Year

ECO. 310. SOCIAL INSURANCE THREE CREDIT HOURS
Application of social insurance to old age, accident, disability and unemployment. Private and cooperative programs for worker security. Current pension and retirement programs are analyzed and discussed.
Second Semester, Each Year

ECO. 312. TRANSPORTATION THREE CREDIT HOURS
A survey of inland transportation agencies and facilities and a discussion of current transportation problems and regulations. Three class periods a week.
Each Semester, Each Year

ECO. 313. PUBLIC UTILITIES THREE CREDIT HOURS
Development of public utilities in the United States. Legal basis of public utilities. Special problems of valuation, depreciation, pricing, financing and management control of utilities. Policies and problems in public administration of utilities. Three class periods a week.
First Semester, Each Year

ECO. 325. LABOR ECONOMICS THREE CREDIT HOURS
The background and development of the American labor movement. Attention is given to the nature of the labor market, including problems of workers, insecurity, wages, collective bargaining, labor legislation, social insurance, and government intervention. Three class periods a week. *Each Semester, Each Year*

ECO. 402. PUBLIC FINANCE AND TAXATION THREE CREDIT HOURS
A survey of government expenditure, borrowing, indebtedness, and revenue. The theory of taxation; constitutional distributive and administrative effects of taxation; American fiscal system. Three class periods a week.
Each Semester, Each Year

ECO. 403. HISTORY OF ECONOMIC THOUGHT **TWO-THREE CREDIT HOURS**

The development of economic concepts and theories from the mercantilists to recent economists. Emphasis upon the modern period. Two or three class periods a week. *Second Semester, Each Year*

ECO. 404. BUSINESS CYCLES **THREE CREDIT HOURS**

Characteristics and economic consequences of business cycles. Analysis of causes and theories of business cycles. Examination of the proposals for eliminating or controlling the business cycle. Some attention is given to the barometers and measurements of business cycles. Three class periods a week. *First Semester, Each Year*

ECO. 405. MONEY, CREDIT AND BANKING **THREE CREDIT HOURS**

A survey of the concepts, principles and practices in the fields of money, credit, and banking. Consideration of monetary systems, foreign exchange, credit instruments, and the principal types of modern financial institutions. Special attention to the commercial bank and its relation to the Federal Reserve System. Three class periods a week. *Each Semester, Each Year*

ECO. 406. ADVANCED BANKING AND MONETARY PROBLEMS**THREE CREDIT HOURS**

Policies and operation of central banks, particularly the Federal Reserve System, and the financial markets. Problems of credit control, monetary stabilization and banking regulations and reform. Current banking problems and trends are emphasized. Three class periods a week. *Second Semester, Each Year*

ECO. 408. CONTEMPORARY ECONOMICS **THREE CREDIT HOURS**

Analysis and discussion of current economic issues. Among the problems considered are labor, prices, government and economic maladjustments. Important current economic problems will be emphasized and discussed as they arise. Three class periods a week. *Second Semester, Each Year*

ECO. 413. ECONOMIC ANALYSIS AND POLICY **TWO-THREE CREDIT HOURS**

Analysis of basic economic principles with special attention to the theories of value and distribution. Two or three class periods a week. *First Semester, Each Year*

ECO. 425. ECONOMICS SEMINAR **TWO CREDIT HOURS**

A study and discussion of special economic problems currently important and of interest to the group. Two class periods a week. *Each Semester, Each Year*

EDUCATION (Educ.)**BRO. FAERBER, HEAD****MR. BURROUGHS, MR. DALY, SR. GENEVIEVE MARIE, MISS KOOGLE,****MR. KREIDER, MR. LEARY, MR. LUBBERS, SR. M. PELAGIA,****MISS MONNETTE, MR. NADEAU, MRS. REEL,****MR. REICHARD, MR. SCHWARTZ, BRO. SIBBING**

EDUC. 101. INTRODUCTION TO EDUCATION **TWO CREDIT HOURS**

Required of all freshman students in Education.

A consideration of the field of Education, its problems and possibilities, with a view of orienting the beginning student with the profession of teaching and of enabling him to select a field of education for major emphasis during his pre-service program.

Each Semester, Each Year

EDUC. 102. SCIENCE FOR THE ELEMENTARY SCHOOL TEACHER I

FOUR CREDIT HOURS

Required of all freshman students in Elementary Education.

Gives the student a functional and broad understanding of those phases and aspects of man's environment that are of everyday interest and usefulness. The contents include such items as the place of the earth in the universe, changes in the earth's surface, conditions necessary to life, living things.

First Semester, Each Year

EDUC. 103. SCIENCE FOR THE ELEMENTARY SCHOOL TEACHER II

FOUR CREDIT HOURS

Required of all freshman students in Elementary Education.

A continuation of Educ. 102. The content items include energy in the universe, man's attempts to control his environment, a study of the objectives of elementary science and of the selection and grade placement of subject matter.

Second Semester, Each Year

EDUC. 105. SPEECH FOR THE TEACHER

THREE CREDIT HOURS

The course takes up aspects of speech and speech skills bearing on the needs of the teaching profession. Major stress is upon the use of speech as a medium of instruction. Detailed attention is given to the topics of voice, diction, conversation, discussion, personal conference, story telling, and oral reading.

Each Semester, Each Year

EDUC. 200. PURPOSES AND PRACTICES OF THE ELEMENTARY SCHOOL

THREE CREDIT HOURS

The objectives, organization, curricula, and community relationships of the elementary school in the United States.

First Semester, Each Year

EDUC. 202. EDUCATIONAL PSYCHOLOGY I

THREE CREDIT HOURS

Human growth and development through the first twenty years, with special emphasis on the elementary and secondary school years. Prerequisite: Psych. 201.

First Semester, Each Year

EDUC. 203. EDUCATIONAL PSYCHOLOGY II

THREE CREDIT HOURS

The psychology of learning. Studies the guidance and fostering of learning activities. Considers the nature, the conditions, and the principles of learning and the principles of teaching.

Second Semester, Each Year

EDUC. 220. THEORY AND METHODS OF KINDERGARTEN-PRIMARY INSTRUCTION

THREE CREDIT HOURS

Deals both with the theory and the necessary practical skills to meet the needs

of children in Kindergarten and in Grades 1, 2, and 3. *First Semester, Each Year*

EDUC. 221. PRACTICAL ARTS IN THE KINDERGARTEN AND PRIMARY GRADES

TWO CREDIT HOURS

Creative expression in the use of such materials as papers, textiles, ceramics, and plastics. A study of handwork as an integral part of activities in the schools.

Second Semester, Each Year

EDUC. 222. PRACTICAL ARTS IN THE INTERMEDIATE GRADES

TWO CREDIT HOURS

Same as Educ. 221, adjusted to the maturity of children in the intermediate grades.

Second Semester, Each Year

EDUC. 231. ARITHMETIC FOR THE ELEMENTARY SCHOOL TEACHER

THREE CREDIT HOURS

Functional arithmetic for teaching purposes. The course aims to insure demonstrated competency in elementary school arithmetic. *Second Semester, Each Year*

EDUC. 301. CLASSROOM MANAGEMENT

THREE CREDIT HOURS

Deals with the control of the classroom setting in fostering learning. Treats the practical aspects of learning and teaching. Examines discipline as an aspect of school morale and studies ways of gaining acceptable student behavior.

Each Semester, Each Year

EDUC. 302. PRINCIPLES OF SECONDARY EDUCATION

THREE CREDIT HOURS

A study of the philosophic principles that underlie the purposes and practices of secondary education; the historical background in relation to the present system; the functions, issues, and trends of secondary education; the curriculum of the secondary school.

Second Semester, Each Year

EDUC. 303. READING IN THE ELEMENTARY SCHOOL

THREE CREDIT HOURS

Required of all students in Elementary Education.

Covers the program of reading. Treats the following problems: reading-readiness, experience reading, methods of meeting individual differences, functional reading, diagnosis in reading, and remedial measures. Observation of teaching in the cooperating schools of the city by prearrangement. Prerequisite: Educ. 203.

Second Semester, Each Year

EDUC. 304. ADOLESCENT PSYCHOLOGY

THREE CREDIT HOURS

May be substituted for Educ. 202 by students in Secondary Education.

A study of the inter-related physical, physiological and mental changes associated with adolescence; interests and ideals; social tendencies and adjustments; causal factors in maladjustment and delinquency among adolescents.

First Semester, Each Year

EDUC. 305. MENTAL HYGIENE

THREE CREDIT HOURS

Presents the characteristic features of normal, integrated behavior. Deals with the types, causes, treatment, and prevention of personality maladjustments.

Each Semester, Each Year

EDUC. 306. CHILD PSYCHOLOGY**THREE CREDIT HOURS**

Required of all students in Kindergarten and Primary Education. May be substituted for Educ. 202 by students in Elementary Education.

A general study of the child's mind, its nature and original endowment; characteristics dominant at different ages and their significance for the teacher; the development of mental traits and abilities, of moral life and character, and the creative activities of a child.

First Semester, Each Year

EDUC. 307. PRINCIPLES OF TEACHING**THREE CREDIT HOURS**

Meaning of education; function of school; meaning and types of learning and of teaching; organization of subject matter; various types of class procedure; recitation, assignment, questioning, drill, etc.; standards for the evaluation of teaching and learning.

To be announced

EDUC. 322. LITERATURE IN THE ELEMENTARY SCHOOL **THREE CREDIT HOURS**

Required of all students in Elementary Education.

Acquaints students with the various fields of children's literature and with adequate evaluative criteria. The contents include the following: history of children's literature, poetry for different age levels, verse choirs, use of poetry, modern stories in folk-tale style, folk tales, story telling.

First Semester, Each Year

EDUC. 324. LANGUAGE IN THE ELEMENTARY SCHOOL **THREE CREDIT HOURS**

Stresses the expressional phase of elementary school language, including oral and written expression, spelling and handwriting. Also treats instructional methods, measurement of accomplishments, and correction of pupil difficulties.

Second Semester, Each Year

EDUC. 325. SOCIAL STUDIES IN THE ELEMENTARY SCHOOL**THREE CREDIT HOURS**

Function of the social studies in the elementary school; appraisal of teaching procedures in the field; formulation of definite principles to use in the selection of suitable contents and methods; testing the results of instruction.

Second Semester, 1953-1954

EDUC. 326. MUSIC IN THE ELEMENTARY SCHOOL**TWO CREDIT HOURS**

Materials to be used in elementary grade school music and their presentation; problems and possibilities of the elementary school music program. Prerequisite: Mus. 141.

Second Semester, Each Year

EDUC. 327. TEACHING OF HOME ECONOMICS IN SCHOOL**THREE CREDIT HOURS**

The philosophy of home economics education, curriculum, methods, devices, and materials used in teaching. Preparation and presentation of units and lessons. Observation of teaching in cooperating schools of city.

Second Semester, 1953-1954

EDUC. 328. SECONDARY SCHOOL METHODS IN COMMERCIAL SUBJECTS

THREE CREDIT HOURS

Invokes the principles of teaching in connection with high school commercial subjects. Includes a survey of commercial textbooks, curricula construction, testing programs, professional periodicals, commercial teacher organizations. Observation of teaching in cooperating schools of city.

First Semester, Each Year

EDUC. 340. PRINCIPLES OF EDUCATION

TWO-THREE CREDIT HOURS

Studies the fundamental concepts underlying the whole of education. Discusses current educational issues, the evolution of educational aims, educational agencies, the question of religious education and character training.

First Semester, Each Year

EDUC. 403. ARITHMETIC IN THE ELEMENTARY SCHOOL

THREE CREDIT HOURS

Required of all students in Elementary Education.

History of number; distribution of content according to grade levels; methods of presentation; diagnosis of number difficulties; remedial instruction; testing.

First Semester, Each Year

EDUC. 404. SECONDARY SCHOOL METHODS IN LATIN

TWO CREDIT HOURS

Discusses the place and purpose of Latin in the secondary school curriculum; evaluates objectives, methods, and teaching materials.

First Semester, 1953-1954

EDUC. 405. SECONDARY SCHOOL METHODS IN ENGLISH AND LITERATURE

THREE CREDIT HOURS

Required for high school certification in English.

Considers ways and means whereby the teacher of English can make his teaching more functional in the lives of students, more modern, more vigorous, and more inspiring. Observation of teaching by prearrangement with cooperating schools.

Second Semester, Each Year

EDUC. 406. SECONDARY SCHOOL METHODS IN SOCIAL STUDIES

THREE CREDIT HOURS

Required for secondary certification in social studies.

Aims and values of social studies in high school. General method and special techniques in the field of social studies in relation to basic principles of learning. Attention is given to practical teaching materials and devices. Observation of teaching in local cooperating schools.

First Semester, Each Year

EDUC. 407. ART IN THE ELEMENTARY SCHOOL

TWO CREDIT HOURS

Deals with newer methods of teaching art in the elementary school; creative art expression and the use of art elements and principles as the basis for creative approach; organization of units of work, including drawing, painting, design, color, modeling, block printing, lettering, and the mural, as they relate to the integrated school program.

Second Semester, Each Year

EDUC. 408. SECONDARY SCHOOL METHODS IN MODERN LANGUAGES**THREE CREDIT HOURS***Required for secondary school certification in modern languages.*

Considers the functions and values of language study; courses of study; organization of materials; conventional and progressive methods; illustrative materials; selection of texts; tests. Observation of teaching on high school level.

*First Semester, 1953-1954***EDUC. 409. SECONDARY SCHOOL METHODS IN MATHEMATICS****THREE CREDIT HOURS***Required for secondary certification in mathematics.*

The objectives of high school mathematics; sequence and correlation of subject matter; methods of teaching; analysis of courses of study and text books; materials and equipment; current trends. Observation of teaching on high school level.

*First Semester, 1952-1953***EDUC. 410. SECONDARY SCHOOL METHODS IN RELIGION****TWO CREDIT HOURS**

Presents the teacher of religion with modern methods of instruction; evaluates the relative merits of religion texts; teaches the employment of the principles of correlation and adaptation with view to the practical needs of adolescents; treats the function of Catholic literature and the problem of pupil participation.

*Second Semester, 1953-1954***EDUC. 411. SECONDARY SCHOOL METHODS IN SCIENCE****THREE CREDIT HOURS***Required for secondary school certification in science.*

Discusses the social basis for instruction in science; development of a philosophy for the teaching of science; selection of objectives on the basis of reliable criteria; determination of technique for developing an integrated science curriculum and a review of pertinent research on science teaching. Observation of teaching on high school level.

*First Semester, 1953-1954***EDUC. 412. MEASUREMENT IN EDUCATION****THREE CREDIT HOURS**

Includes the following topics: history of measurement in education; mental tests and school progress tests; study of tests and scales in common uses; application of measurement to schoolroom problems. Practice will be given in administering and scoring of tests and in evaluating results.

*First Semester, 1953-1954***EDUC. 414. STUDENT TEACHING****SIX-TWELVE CREDIT HOURS***Required of all Education students, both for the degree and for teaching certification.*

Content includes: weekly conference with Director of Student Teaching; guidance in planning definite teaching units; teaching in actual classroom situations for extended periods under close supervision; evaluating pupil progress; conferences with supervising teachers on teaching procedures employed; participation in general school activities. *Each Semester, Each Year*

EDUC. 415. PRINCIPLES OF GUIDANCE**THREE CREDIT HOURS**

Studies the fundamental principles of guidance and the basic needs of individual students. Seeks to show ways in which needs can be met through an organized guidance program.

*Second Semester, Each Year***EDUC. 416. HISTORY OF EDUCATIONAL THOUGHT****THREE CREDIT HOURS**

A series of concise interpretations of leading thinkers from Plato to John Dewey; deals with the world's leading educational ideas. The course endeavors to give reliable direction to the future in education through knowledge of the past.

*Second Semester, 1953-1954***EDUC. 417. LIBRARY GUIDANCE FOR TEACHERS****THREE CREDIT HOURS**

Trains the teacher to make use of the available services and resources of the standard school library in behalf of a well-rounded education for pupils. Acquaints the class with library organization, reference material, indexes, and bibliography. Not designed for teacher-librarians.

*Second Semester, 1953-1954***EDUC. 419. PHILOSOPHY OF EDUCATION****THREE CREDIT HOURS**

The application of the fundamental principles of a philosophy of life to the work of education. The course draws up criteria for the intelligent evaluation of educational theory and practice.

*First Semester, Each Year***EDUC. 420. MODERN THEORIES OF EDUCATION****THREE CREDIT HOURS**

An evaluation of the modern philosophies of education. Attention is directed to the main tenets of each philosophy and the effects on educational theory and practice.

*Second Semester, Each Year***EDUC. 422. THE ROLE OF THE SCHOOL IN THE SOCIAL ORDER****THREE CREDIT HOURS**

Studies the sociological facts and principles essential to the background of every teacher; an analysis of the sociological objectives of education; surveys and appraises the implications of outside-of-school agencies, such as associational influence, customs, social control, parental education, youth problems, libraries, motion pictures, the press, radio, and the like.

*First Semester, 1953-1954***EDUC. 431. VISUAL AND OTHER SENSORY AIDS IN EDUCATION****THREE CREDIT HOURS**

Studies the aims and psychological bases of the use of visual and other sensory aids in the classroom; the techniques of the various types, including slides, motion pictures, television, maps, charts, radio, field trips, etc.; demonstration lessons applying sensory methods to the subjects of the curriculum.

*Second Semester, 1952-1953***EDUC. 439. SCHOOL PROVISIONS FOR INDIVIDUAL DIFFERENCES****THREE CREDIT HOURS**

Studies the different traits and abilities of pupils and ways whereby teaching

might be adjusted to these differences. Special attention focused on the slow learner, the gifted student, and the educationally retarded child.

Second Semester, 1952-1953

EDUC. 441. DIAGNOSIS AND REMEDIAL INSTRUCTION THREE CREDIT HOURS
A study of the major factors associated with learning difficulties, techniques that might be used to diagnose the nature and causes of pupil difficulty, and the methods by which remedial adjustments can be made.

Second Semester, 1953-1954

EDUC. 442. SPEECH CORRECTION AND HEARING THERAPY

THREE CREDIT HOURS

Treats the speech and hearing handicaps which frequently confront the teacher in the persons of elementary and secondary school pupils. The course endeavors to point out causes of these defects and ways of correcting them or surmounting them in furthering educational outcomes.

First Semester, 1953-1954

ENGLISH (Eng.)

BRO. WILLIAM WEHRLE, HEAD

BRO. BOLL, FR. DONNELLY, SR. GENEVIEVE MARIE, BRO. KOHLES,

SR. MARIE EMILIE, MRS. PECKHAM, BRO. PRICE, MISS WHETRO

ENG. 100. ENGLISH COMPOSITION

THREE CREDIT HOURS

This course, consisting largely of the principles of grammar and the mechanics of composition, is obligatory for those who score below a determined norm on a standardized test. Upperclassmen, at the discretion of the respective deans, may also be required to take or to repeat this course. Five class periods a week.

Each Semester, Each Year

ENG. 101. ENGLISH COMPOSITION

THREE CREDIT HOURS

This is the regular freshman college composition course in which the principles of grammar, punctuation, usage, and rhetoric are presented. Application of these principles is made to exercises and regularly assigned themes.

Each Semester, Each Year

ENG. 221. ENGLISH LITERATURE

THREE CREDIT HOURS

This course presents a survey of English literature from its beginning to the present day and includes a study of the background as well as the works of the authors of each period.

Each Semester, Each Year

ENG. 222. AMERICAN LITERATURE

THREE CREDIT HOURS

This course presents a survey of American literature from the Colonial Period to the present day and presents a study of the background as well as representative works of the different periods.

Each Semester, Each Year

ENG. 304. THEME WRITING

THREE CREDIT HOURS

This course presents an intensive study of the construction and preparation of

a documented paper. A documented paper is required to show that the principles taught have been assimilated. *Second Semester, Each Year*

ENG. 305. MEDICAL TERMINOLOGY

THREE CREDIT HOURS

This course presents a study of the Greek and Latin roots which form the foundation of medical terms. To this is added a study of prefixes, suffixes, and compounds. *First Semester, Each Year*

ENG. 316. ADVANCED COMPOSITION

THREE CREDIT HOURS

This course presents a study and application of the principles of composition to the various types of writing. Prerequisite: Eng. 101.

Each Semester, Each Year

ENG. 322. WORLD LITERATURE

THREE CREDIT HOURS

This course is a study of international literature, stressing the classics, beginning with the epic of Homer, and tracing some of the main lines in the development of the literature of the Western cultures. Lectures, discussions, and oral reports are included. *First Semester, Each Year*

ENG. 325. TECHNIQUE OF VERSE

THREE CREDIT HOURS

This course presents a study of the principles and mechanics of poetic forms, with the purpose of applying what has been learned to exercises in writing verse. *First Semester, Each Year*

ENG. 326. TECHNIQUE OF THE NOVEL

THREE CREDIT HOURS

This course presents a study of plot, characterization, background, point of view, conduct of the narrative, and analysis of the novel. *First Semester, 1952-1953*

ENG. 327. HISTORY OF THE NOVEL

THREE CREDIT HOURS

This course presents a study of the English novel from its beginnings to the present day. Outside readings and reports constitute an integral part of the course. *Second Semester, 1953-1954*

ENG. 328. SURVEY OF THE ESSAY

THREE CREDIT HOURS

This course presents the history, nature, structure, and style of the essay. The lives and works of the leading essayists are studied. *First Semester, 1953-1954*

ENG. 329. SHORT STORY

THREE CREDIT HOURS

This course presents a study of the characteristics of the writers of the Victorian short story. Various models of the short story will be analyzed. The reading and reporting on specified stories form a part of the course. *First Semester, 1953-1954*

ENG. 330. VICTORIAN POETS

THREE CREDIT HOURS

This course presents a study of the characteristics of the writers of the Victorian Age through direct contact with their works. The influence of these writers will also be pointed out. *Second Semester, 1952-1953*

ENG. 331. ROMANTIC POETS **THREE CREDIT HOURS**

This course presents a study of the characteristics of the writers of the Romantic Age through direct contact with their works. The influence of these writers will also be pointed out. *First Semester, 1952-1953*

ENG. 351. AMERICAN DOCUMENTARY LITERATURE **THREE CREDIT HOURS**

This course presents a study of influential political documents from the Mayflower Compact to the present day, stressing literary aspects, composition, and rhetoric, as well as the principles of democracy. *First Semester, Each Year*

ENG. 408. BUSINESS ENGLISH **THREE CREDIT HOURS**

The principles of letter writing are studied and applied in conformity with the best current practices in business. *First Semester, Each Year*

ENG. 414. FRANCIS THOMPSON **THREE CREDIT HOURS**

This course presents a study of the life and times of Francis Thompson, together with a reading and analysis of his outstanding works. *First Semester, Each Year*

ENG. 415. MILTON **THREE CREDIT HOURS**

A study of *Paradise Lost* and *Paradise Regained* and a selected number of the minor poems of Milton. *Second Semester, 1952-1953*

ENG. 416. BROWNING **THREE CREDIT HOURS**

An intensive study of the life and times of Robert Browning, together with a reading and analysis of his outstanding works. *Second Semester, 1953-1954*

ENG. 417. EDGAR ALLAN POE **THREE CREDIT HOURS**

This course presents a study of the life and times of Edgar Allan Poe, together with a reading and analysis of his poetry, stories, and essays. *First Semester, 1952-1953*

ENG. 419. NEWMAN **THREE CREDIT HOURS**

An analytical study of Newman's prose in *The Idea of a University*. The writing of essays modeled on the *Discourse*. *Second Semester, Each Year*

ENG. 421. MODERN POETRY **THREE CREDIT HOURS**

This course presents a study of the British and American poets of the modern era. The poetic movements characteristic of this period will be studied and applied to the writings of the poets considered. *Second Semester, Each Year*

ENG. 422. INTRODUCTION TO DRAMA **THREE CREDIT HOURS**

This course presents a survey of the development of the drama of all ages, and of the chief nations from the time of the Greeks to the present day. The reading of typical plays forms an integral part of the course. *First Semester, 1952-1953*

ENG. 423. TRAGEDIES OF SHAKESPEARE **THREE CREDIT HOURS**

This course presents a comprehensive study of all the Tragedies of Shake-

speare. All of the plays will be read. An intensive study of a selected few of the Tragedies will be made.

Second Semester, 1952-1953

ENG. 424. COMEDIES OF SHAKESPEARE

THREE CREDIT HOURS

A comprehensive study of all the Comedies will be made with special emphasis upon a selected few.

Second Semester, 1953-1954

ENG. 425. HISTORIES OF SHAKESPEARE

THREE CREDIT HOURS

This course presents a comprehensive study of all the Historical plays of Shakespeare. All of the plays will be read. An intensive study of a selected few will be made.

Second Semester, 1953-1954

ENG. 426. MODERN DRAMA

THREE CREDIT HOURS

In this course, a selected number of dramas from the modern period will be read and studied.

Second Semester, Each Year

ENG. 427. DANTE

THREE CREDIT HOURS

The Divine Comedy in English: a comprehensive study of the poem from a literary point of view.

Second Semester, 1952-1953

ENG. 428. LITERARY CRITICISM

THREE CREDIT HOURS

A study of the beginnings and development of literary criticism. It includes a study of fundamental principles of literary structure and style, together with the various theories advanced.

First Semester, 1953-1954

ENG. 429. CHAUCER

THREE CREDIT HOURS

This course presents a study of the life and times of Chaucer. Emphasis is placed on the study of the *Canterbury Tales*.

Second Semester, 1953-1954

ENG. 430. HISTORY OF THE ENGLISH LANGUAGE

THREE CREDIT HOURS

The stages of the development of the language, together with the influences shaping its development, will be studied to show what has happened to the English language from the beginning to the present day. This course is recommended to those majoring in English, as well as those who intend to teach English.

Second Semester, Each Year

JOURNALISM

ENG. 141. INTRODUCTION TO JOURNALISM I

THREE CREDIT HOURS

An outline survey designed to acquaint the prospective journalist with the field of Journalism.

First Semester, Each Year

ENG. 142. INTRODUCTION TO JOURNALISM II

THREE CREDIT HOURS

This is a continuation of Eng. 141, which presents an outline survey designed to acquaint prospective journalists with the field of Journalism.

Second Semester, Each Year

ENG. 241. REPORTING**THREE CREDIT HOURS**

Instruction and practice in gathering and recording news, combining the basic principles of news writing with exercises as assignment materials.

First Semester, Each Year

ENG. 341. EDITING**THREE CREDIT HOURS**

A step-by-step treatment of the technique of publication production. Laboratory work in editing copy, headline building, page make-up, typography, and proof-reading are included.

First Semester, Each Year

ENG. 342. FEATURE AND EDITORIAL WRITING**THREE CREDIT HOURS**

Instruction and practice in compiling and writing various types of special feature articles and editorials.

Second Semester, Each Year

GEOLOGY (Geo.)

BRO. SALETEL, HEAD

MR. HERRON, MR. G. SPRINGER

GEO. 101. PHYSICAL GEOLOGY**FOUR CREDIT HOURS**

An introductory course in the composition and structure of the earth; its land forms and the agencies active in their production. Three class periods and one laboratory period a week.

First Semester, Each Year

GEO. 102. HISTORICAL GEOLOGY**FOUR CREDIT HOURS**

The geological history of the earth as interpreted from the rocks of its crust; its dynamic, geographic, and climatic changes; animals and plants of the past. Three class periods and one laboratory period a week. Also field work. Pre-requisite: Geo. 101.

Second Semester, Each Year

GEO. 103. PRINCIPLES OF GEOGRAPHY**THREE CREDIT HOURS**

An analysis and classification of the physical and cultural features of the earth; their pattern of distribution, and their associations. Three class periods a week.

First Semester, Each Year

GEO. 104. ECONOMIC GEOGRAPHY**THREE CREDIT HOURS**

This course shows the influence of physiography factors on the agricultural, extractive and manufacturing industries, and the problems involved in transportation and commerce. Three class periods a week.

Each Semester, Each Year.

GEO. 201. MINERALOGY**FOUR CREDIT HOURS**

A microscopic study of minerals, their chemical and physical properties and economic uses. The course includes a discussion of crystallography and the determination of the more common minerals by their physical properties and blow-pipe analysis. Two class periods and four hours of laboratory a week.

First Semester, 1952-1953

GEO. 202. OPTICAL MINERALOGY AND PETROGRAPHY FOUR CREDIT HOURS

A study of the optical properties of the rock forming minerals, and the determination of rock types through the use of thin sections and the polarizing microscope. Two class periods and four hours of laboratory a week.

Second Semester, 1952-1953

GEO. 203. REGIONAL GEOGRAPHY THREE CREDIT HOURS

A study of the provinces of Europe, Asia, and South America. Physiography is used as a basis for showing economic and cultural developments. Three class periods a week.

Second Semester, Each Year

GEO. 301. STRUCTURAL GEOLOGY FOUR CREDIT HOURS

The origin and development of structural features of the earth's crust; folding, faulting, volcanism, mountain building, and metamorphism. Three class periods and two hours of laboratory a week.

First Semester, 1953-1954

GEO. 302. GLACIAL GEOLOGY THREE CREDIT HOURS

The origin of mountain and continental glaciers; their depositional features and corrosive activity; history of glaciation in geologic past with special emphasis upon North American Pleistocene ice advances. Three class periods a week.

Second Semester, 1953-1954

GEO. 303. FIELD GEOLOGY SIX CREDIT HOURS

Six or eight weeks summer study of structural and age relationship problems in areas containing abundant crystalline and sedimentary exposures. *Summer, 1954*

GEO. 305. INTERMEDIATE PETROLOGY FOUR CREDIT HOURS

Discussion of the processes of igneous intrusion and extrusion, and of the theories of magmatic differentiation; study of the principles and products of metamorphism. Two class periods and four hours of laboratory a week.

First Semester, 1953-1954

GEO. 307. GEOMORPHOLOGY FOUR CREDIT HOURS

A detailed study of landforms and the erosional processes that develop them. Three class periods and two hours of laboratory a week.

Second Semester, 1953-1954

GEO. 401. PALEONTOLOGY FOUR CREDIT HOURS

A study of animal life of the geologic past as shown by the fossil record. Three class periods and two hours of laboratory a week. *Second Semester, 1952-1953*

GEO. 403. SEDIMENTATION THREE CREDIT HOURS

The sequence and methods of correlation of the sedimentary rocks of North America, with special attention given to index fossils characteristic of various geologic horizons. Discussion of the processes of sedimentation; diagnosis; classification of sedimentary rocks; detailed study of common rock types. Three class periods a week.

First Semester, 1952-1953

GEO. 404. PROBLEMS IN GEOLOGY**THREE CREDIT HOURS**

A consideration of special problems involving advanced work in the laboratory and library; arranged to meet the needs of individual students.

Each Semester, Each Year

GEO. 405-406. ECONOMIC GEOLOGY**SIX CREDIT HOURS**

Geology of fuels, the major ores, the raw materials used for structural and building purposes; their geographic distribution, geologic occurrence, recognition and production. Three class periods a week. Prerequisite: Geo. 101-102.

Full Year Course, 1952-1953

GEO. 407. PHOTOGRAPHIC INTERPRETATION**FOUR CREDIT HOURS**

The use of aerial photographs in the interpretation of landforms, and as base maps in geological surveying. Two class periods and four hours of laboratory a week.

First Semester, 1952-1953—Evening

HISTORY (Hist.)

MR. STEINER, HEAD

MR. BEAUREGARD, MR. O'DONNELL

HIST. 103-104. ECCLESIASTICAL HISTORY**SIX CREDIT HOURS**

This course is given at Mount St. John. Enrollment is restricted to members of the Society of Mary.

Full Year Course, Each Year

HIST. 111. HISTORY OF MODERN EUROPE**THREE CREDIT HOURS**

A survey of European History from 1450 to 1789. After a summary of the Pre-historic, Ancient, and Medieval periods, this course discusses the Renaissance, the Protestant Revolution, the Catholic Reformation, and the economic revolution, as well as the absolute monarchies, overseas expansion, and the intellectual revolution. Hist. 111, along with Hist. 112, serves as an introduction to European History.

First Semester, Each Year

HIST. 112. HISTORY OF MODERN EUROPE**THREE CREDIT HOURS**

A survey of European History from 1789 to the present. Beginning with the French Revolution and the Napoleonic Era, this course considers the growth of nationalism, liberalism, industrialism, and imperialism, as well as World War I, totalitarianism, World War II, and the United Nations Organization.

Second Semester, Each Year

HIST. 205. AMERICAN ECONOMIC HISTORY**THREE CREDIT HOURS**

An intensive study of the development of agriculture, industry, transportation, commerce, and finance against the general background of American political and social history. Accredited in Economics.

Each Semester, Each Year

HIST. 251. AMERICAN HISTORY TO 1865**THREE CREDIT HOURS**

A general survey of the development of the American nation from colonial times to 1865. Due consideration is given to political trends, but the economic

and social foundations of American institutions are also emphasized. Such major developments as the establishment of the colonies, the origin of the Constitution, the rise of Jeffersonian democracy, westward expansion, the emergence of sectionalism and the Civil War are given special attention.

First Semester, Each Year

HIST. 252. AMERICAN HISTORY SINCE 1865

THREE CREDIT HOURS

This course carries forward the story of the nation and its development after the Civil War. Stress is laid upon those social, economic, and political problems, a knowledge of which is essential to an understanding of contemporary America. Among the topics considered are reconstruction and reunion of the sections, continued westward expansion, the rise of big business and governmental regulation, the Spanish-American War and imperialism, social and political reform under Theodore Roosevelt and Woodrow Wilson, and the post-war cycle of prosperity and depression culminating in the New Deal.

Second Semester, Each Year

HIST. 301. MEDIEVAL EUROPE

THREE CREDIT HOURS

The development of political, economic, social, religious, and cultural institutions during the Middle Ages to the period of the Renaissance. Such topics as the growth of national states, feudalism, the Crusades, the development of monasticism, medieval culture, commerce, and industry are given special emphasis.

Second Semester, 1953-1954

HIST. 302. THE RENAISSANCE AND THE REFORMATION

THREE CREDIT HOURS

This course is an analysis of the transition from medieval to modern times. Beginning with the background of the Renaissance period, the course considers the religious, social, cultural, economic, and political aspects of that period, followed by a study of the Protestant Revolt and a treatment of the Catholic Reformation.

First Semester, 1952-1953

HIST. 303. EXPANSION OF EUROPE

THREE CREDIT HOURS

A treatment of the spread of European power and institutions between 1450 and 1914. European influence in Africa, Oceania, and Canada will be emphasized, but it will be considered in the Near East, Middle East, and India. Prerequisites: Hist. 111 and 112.

Second Semester, 1952-1953

HIST. 305. HISTORY OF RUSSIA

THREE CREDIT HOURS

The development of the Russian state from earliest times to the present. This course is concerned with the origins of the Russian state, political and economic growth, and a consideration of the development of the modern Russian state in the period following the Revolution of 1917.

Second Semester, 1952-1953

HIST. 306. MODERN RUSSIAN HISTORY

THREE CREDIT HOURS

An account of the historical development of the Soviet state from its beginning in 1917 to the present time. Emphasis will be on the application of the economic

and political principles of the Soviet regime to the Russian Empire and the effect of these principles on social, religious, and cultural life.

First Semester, 1953-1954

HIST. 307. CULTURAL HISTORY OF EUROPE TO 1830 THREE CREDIT HOURS

A brief review of pre-historic and Oriental art to prepare the ground for a study of modern art. Then a more intensive survey of the basic arts of architecture, painting, sculpture, and music through the various movements in Europe and America: the Greek and Roman; the Byzantine and Saracenic; the Romanesque and Gothic; the Renaissance; the Baroque, the Rococo and the Neo-Classic. Accredited in Art.

First Semester, Each Year

HIST. 308. CULTURAL HISTORY OF EUROPE SINCE 1830 THREE CREDIT HOURS

After a brief survey of the basic principles underlying all the arts, and their application to daily life, an intensive study of the Romantic, Realistic and Impressionistic movements, together with a study of the various Modern movements since 1900. Accredited in Art.

Second Semester, Each Year

HIST. 311. HISTORY OF THE ANCIENT NEAR EAST THREE CREDIT HOURS

A detailed study of the civilizations of the Near East between 5000 B.C. and 500 B.C. The civilizations—Egyptian, Mesopotamian, Anatolian, Syro-Palestinian, Persian, and Aegean—will be analyzed regarding political, economic, social, religious, and cultural factors.

Second Semester, 1952-1953

HIST. 312. HISTORY OF ANCIENT GREECE AND ROME THREE CREDIT HOURS

A detailed study of three civilizations—Hellenic, Hellenistic, and Roman—between 1100 B.C. and 476 A.D. These civilizations will be treated concerning political, economic, social, cultural, and religious elements.

First Semester, 1953-1954

***HIST. 313. CHRISTIAN ANTIQUITY THREE CREDIT HOURS**

This course investigates the origin and cultural setting of early Christianity, the conflict with the pagan Roman Empire and the subsequent emergence of Christianity under Constantine. Special emphasis is placed upon the doctrinal controversies and patristic writers of the fourth and fifth centuries.

Second Semester, Each Year

HIST. 331-332. SURVEY OF RUSSIAN CIVILIZATION SIX CREDIT HOURS

Designed to give students an opportunity to acquire an understanding of Russian life and culture. All major factors which form the background of a nation will be considered. For reasons of simplification and convenience, the survey is divided into two parts, with 1917 as the dividing line; effort is made to preserve a balance between the Tzarist and the Soviet Periods.

To be announced—Evening

HIST. 351. AMERICAN COLONIAL HISTORY THREE CREDIT HOURS

A study of the foundations of American nationality. Beginning with a consideration of the European background of American colonization, the course

continues with the development of the colonial system, with direct reference to the ideas and institutions that were transplanted from the Old World. Attention is then given to the growth of democratic tendencies and the rise of conflicting points of view leading to the American Revolution.

First Semester, 1952-1953

HIST. 358. LATIN-AMERICAN HISTORY

THREE CREDIT HOURS

A survey of the development of Latin America from pre-Columbian and colonial times to the modern era. Emphasis will be placed on the development of the Latin-American republics and their relation to the rest of the world.

First Semester, 1953-1954

HIST. 390. RECENT HISTORY OF THE NEAR EAST

THREE CREDIT HOURS

This course emphasizes political developments in the Near and Middle East from 1914 to the present, but with due attention to underlying factors of economic, social, religious, cultural, and geographical significance.

Second Semester, 1953-1954

HIST. 401. PRO-SEMINAR IN HISTORY

TWO CREDIT HOURS

An introduction to the study of research and writing in History. Special emphasis is given to the mechanics of research and the problems encountered in preparing a manuscript for publication. Practical application of the principles of research and composition will be required in the form of a term paper. Required of all History majors. Prerequisite: 12 credit hours in History.

First Semester, Each Year

HIST. 409. EUROPE SINCE 1914

THREE CREDIT HOURS

An intensive treatment of Europe from 1914 to the present. Particular concentration is placed on these topics: the causes and outcome of World War I; the internal policies of the nations between the two World Wars; the diplomacy leading to World War II; the impact of World War II; the outlook for the future.

First Semester, 1953-1954

HIST. 411. HISTORY OF THE FAR EAST

THREE CREDIT HOURS

A brief review of the early historical development of the main areas of the Far East, followed by a more intensive study of the development of China and Japan in the nineteenth and twentieth centuries. Emphasis is given to the political, religious, cultural, and economic growth of China and Japan. The lesser lands of the Far East are treated in a general way.

Second Semester, 1953-1954

HIST. 427. THE WESTWARD MOVEMENT

THREE CREDIT HOURS

A history of the expansion of settlement in the United States since 1783. The movement of the frontier to the Pacific Coast will be followed in relation to the development of exploration, Indian relations, land policy, methods of transportation, and the influence of the West upon American ideals and institutions.

Prerequisite: Hist. 251 and 252.

Second Semester, 1952-1953

HIST. 449. RECENT AMERICAN HISTORY**THREE CREDIT HOURS**

Stress is laid on the social, political, and economic phases of American History from 1900 to the present, with a broad interpretation of the impact of mature capitalism on American behavior.

*First Semester, 1952-1953***HIST. 457. DIPLOMATIC HISTORY OF THE UNITED STATES****THREE CREDIT HOURS**

A survey of American diplomatic history from colonial times to the present. Considerable attention is devoted to political, social, and economic forces that affected diplomatic developments. Special consideration to such topics as isolationism, the Monroe Doctrine, Manifest Destiny, and Imperialism. Prerequisite: Hist. 251 and 252.

*Second Semester, 1952-1953***HIST. 461. THE HISTORY OF MEXICO****THREE CREDIT HOURS**

A political, social, and cultural history of the Mexican nation; the development and expansion of New Spain; the work of the Church as an agency of Christianity and civilization; problems affecting the growth and integrity of the republic of Mexico.

Second Semester, 1953-1954

*The course bearing an asterisk is conducted in the Carthagen Division, Carthagen, Ohio. Enrollment is limited to members of the Congregation of the Most Precious Blood.

HOME ECONOMICS (Hec.)**MRS. ROSE, HEAD****MRS. JOHNS, MRS. PAYNE, MRS. SELF****HEC. 100. INTRODUCTION TO HOME ECONOMICS****ONE CREDIT HOUR**

A course planned to acquaint freshmen with the home economics program and opportunities in the field; problems in personal adjustment. Required of all students majoring in home economics. One class period a week.

*First Semester, Each Year***HEC. 101. BEGINNING CLOTHING****THREE CREDIT HOURS**

Instructions on the use of the sewing machine and its attachments; the study of commercial patterns and the construction of cotton garments. Three two-hour laboratory periods a week. Hec. 105 recommended as preceding or concurrent.

*Second Semester, Each Year***HEC. 102. FOODS I****THREE CREDIT HOURS**

A study of the basic principles of food selection and preparation; application of these basic principles as they relate to commonly used foods in an adequately balanced diet. One class period and two two-hour laboratory periods a week.

*First Semester, Each Year***HEC. 103. EDUCATION FOR FAMILY LIFE****THREE CREDIT HOURS**

A course planned for non-home economics majors. Some basic principles of

meal planning and preparation, related art and clothing given. Opportunity given for application of these principles. Two class periods and one two-hour laboratory period a week.

Second Semester, Each Year

HEC. 105. INTRODUCTION TO RELATED ART

THREE CREDIT HOURS

A basic course in color and design. Two class periods and one laboratory period a week.

First Semester, Each Year

HEC. 201. FOODS II

THREE CREDIT HOURS

A study of the problems that will be found in cooking meat, fish, poultry, and various flour mixtures. One class period and two two-hour laboratory periods a week. Prerequisite: Hec. 102.

Second Semester, Each Year

HEC. 203. HEALTH AND HOME NURSING

THREE CREDIT HOURS

A study of personal health and prevention of disease in the family; relation to community health and disease control; important diseases and their prevention; accidents and emergencies in the home. Three class periods a week.

First Semester, Each Year

HEC. 205. ELEMENTARY ACCOUNTING FOR HOME ECONOMICS STUDENTS

THREE CREDIT HOURS

An introductory course in accounting, acquainting the student with the entire cycle of bookkeeping procedure. Three class periods a week.

First Semester, 1952-1953

HEC. 214. TEXTILES I

THREE CREDIT HOURS

A study of the characteristics of textile fibres, yarns, and fabrics as they affect ultimate use and durability. Two class periods and one two-hour laboratory period a week.

Second Semester, Each Year

HEC. 221. HOME MANAGEMENT I

THREE CREDIT HOURS

Study of management of various resources available to the family with a view to promoting family well-being and satisfaction. Three class periods a week.

Second Semester, Each Year

HEC. 222. HISTORIC TEXTILES

THREE CREDIT HOURS

A study of the development of the textile industry in all parts of the world, with emphasis on fibers used, design and color. Three class periods a week. Prerequisite: Hec. 214.

Second Semester, 1952-1953

HEC. 302. MEAL PLANNING AND TABLE SERVICE

THREE CREDIT HOURS

Principles of menu planning and table service for families in various income levels and special occasions. A study of glassware, silverware, and china. Laboratory practice in preparation of meals. One class period and two two-hour laboratory periods a week. Prerequisite: Hec. 102 or 201.

First Semester, 1953-1954

HEC. 303. NUTRITION AND HEALTH

FOUR CREDIT HOURS

Fundamental principles of human nutrition, including requirements of the body

for the nutritive essentials, the composition of foods and the planning of adequate diets for health. Three class periods and one two-hour laboratory period a week. Prerequisites or Corequisites: Chem. 100, 200, 400.

First Semester, 1952-1953

HEC. 304. QUANTITY COOKERY **THREE CREDIT HOURS**

The planning, preparing, and serving of foods in large quantities. Use and care of equipment for quantity cookery. One class period and one four-hour laboratory period a week. Prerequisites: Hec. 102, 201. *First Semester, 1953-1954*

HEC. 305. INSTITUTIONAL ACCOUNTING **THREE CREDIT HOURS**

A study of bookkeeping methods used in various types of institutions; perpetual inventory in the field of foods; food stores and inventories. Three class periods a week. Prerequisite: Hec. 205. *Second Semester, 1952-1953*

HEC. 307. HOUSEHOLD PHYSICS **THREE CREDIT HOURS**

The principles of physics as applied to household appliances. Three class periods a week. *Second Semester, 1952-1953*

HEC. 308. INSTITUTIONAL BUYING **THREE CREDIT HOURS**

Selection and methods of purchasing food in large quantities. Selection and maintenance of institutional equipment. *Second Semester, 1953-1954*

HEC. 309. HOUSEHOLD EQUIPMENT **THREE CREDIT HOURS**

A study of the principles involved in the selection, construction, operation, and care of household equipment and its relation to the well-being of the family. One class period and two two-hour laboratory periods a week. Prerequisite: Hec. 307. *First Semester, 1952-1953*

HEC. 311. ADVANCED CLOTHING **THREE CREDIT HOURS**

Selection and construction of rayon or silk and woolen garments. Includes a remodeling problem and problems in renovation and repair. Three two-hour laboratory periods a week. Prerequisites: Hec. 101, 105. *First Semester, Each Year*

HEC. 312. CHILDREN'S CLOTHING **THREE CREDIT HOURS**

A study of fabrics, design, and decoration of clothing suitable for infants and children. Construction is included. One class period and two two-hour laboratory periods a week. Prerequisites: Hec. 101, 105, 311. *First Semester, 1953-1954*

HEC. 314. COSTUME ART AND DESIGN **THREE CREDIT HOURS**

Creative work in selecting, designing, criticizing various types of garments and their suitability for different types of people. Stress is placed upon the drawing and designing of costumes. One class period and two two-hour laboratory periods a week. Prerequisite: Hec. 105. *Second Semester, 1953-1954*

HEC. 315. CONSUMER BUYING **THREE CREDIT HOURS**

Labeling and principles of better buying of the family's clothing, food and

household furnishings. For Juniors and Seniors. Three class periods a week.
Second Semester, 1952-1953

HEC. 316. TEXTILES II THREE CREDIT HOURS
Microscopical, chemical and physical analysis of textile fibers and fabrics. Recent developments in the textile field. Two class periods and one two-hour laboratory period a week. Prerequisite: Hec. 214. *Second Semester, 1953-1954*

HEC. 318. FAMILY RELATIONSHIPS THREE CREDIT HOURS
A consideration of the factors necessary for the establishment and maintenance of happy family relationships. Three class periods a week.
First Semester, Each Year

HEC. 323. DEMONSTRATION METHODS ONE CREDIT HOUR
A study in the presentation of a series of demonstrations; study of publicity materials, articles, leaflets, and announcements as they would pertain to a demonstration or presentation. One class period a week. For Juniors and Seniors.
First Semester, Each Year

HEC. 324. BISHOP CLOTHING CONSTRUCTION METHODS THREE CREDIT HOURS
Trade practices and perfection details used in speeding simple dress construction, fitting, and tailoring. Blouses, simple dress and suit or coat to be constructed. Three two-hour laboratory periods a week. *Evening Course Only*

HEC. 401. ADVANCED NUTRITION THREE CREDIT HOURS
Aims to extend the student's knowledge of the science of nutrition, stressing the metabolism of food constituents and the recent advances in the field of nutrition. Three class periods a week. Prerequisite: Hec. 303.
Second Semester, 1952-1953

HEC. 402. DIET IN DISEASE THREE CREDIT HOURS
Adaptation of diet to disease. Three class periods a week. Prerequisite: Hec. 303.
Second Semester, 1953-1954

HEC. 405. TEACHING OF HOME ECONOMICS IN SCHOOL THREE CREDIT HOURS
The philosophy of home economics education, curriculum, methods, devices, and materials used in teaching. Preparation and presentation of units and lessons. Three class periods a week. *Second Semester, 1953-1954*

HEC. 406. HOME MANAGEMENT II THREE CREDIT HOURS
A study of the goals in home making. Students have an opportunity to put into practice the subject matter previously learned by applying same. One class period a week, individual conferences and laboratory periods to be arranged. Prerequisites: Hec. 102, 201, 302, 321. *Second Semester, Each Year*

HEC. 407. INSTITUTIONAL ORGANIZATION AND MANAGEMENT**THREE CREDIT HOURS**

A study of the principles of institutional organization and administration applied to the problems of feeding institution groups; problems in personnel management; cost control. Three class periods a week.

*Second Semester, 1952-1953***HEC. 409. ADVANCED FOODS****THREE CREDIT HOURS**

A study of the recent developments in foods with special emphasis on food preservation. One class period and two two-hour laboratory periods a week.

*First Semester, 1953-1954***HEC. 412. HISTORIC COSTUME****THREE CREDIT HOURS**

A study of the development of costume from ancient times to the present day; the influences of social and economic conditions upon costume. Two class periods and one two-hour laboratory period a week. For Juniors and Seniors.

*First Semester, 1953-1954***HEC. 415. TAILORING****THREE CREDIT HOURS**

Tailored construction applied in the making of coats and suits. Three two-hour laboratory periods a week. Prerequisites: Hec. 101, 105, 311.

*Second Semester, 1952-1953***HEC. 423. HOME FURNISHINGS I (Interior Decoration)****THREE CREDIT HOURS**

A study of the problems involved in furnishing a home artistically, including furniture and its arrangement, and the decorative details of room planning. Two class periods and one two-hour laboratory period a week.

*Second Semester, Each Year***HEC. 424. HOME ARCHITECTURE****THREE CREDIT HOURS**

A study of the evolution of the house; the development of its function as a place of shelter and the center of family life; types of architecture. Two class periods and one two-hour laboratory period a week. Prerequisite: Hec. 105.

*Second Semester, 1952-1953***HEC. 425. CHILD DEVELOPMENT I****THREE CREDIT HOURS**

A study of the various aspects of child development necessary for an understanding of behavior of children and the factors involved in their guidance. Two class periods and one two-hour laboratory period a week.

*Second Semester, 1953-1954***HEC. 426. CHILD DEVELOPMENT II****THREE CREDIT HOURS**

Continuation of Child Development I. Two class periods a week; laboratory periods to be determined. Prerequisite: Hec. 425.

*Second Semester, 1952-1953***HEC. 427. TEXTILE ECONOMICS****THREE CREDIT HOURS**

Problems of the textile and clothing industry as they affect the buyer; how

industry is affected by present-day laws and trends. Factors affecting fashion, price and style. Three class periods a week. For Seniors.

First Semester, 1952-1953

HEC. 430. HOME FURNISHINGS II

THREE CREDIT HOURS

Problem of making slip covers, draperies and refinishing furniture, as it meets the needs of the individual.

Second Semester, 1952-1953

HEC. 431. FIELD WORK

THREE-SIX CREDIT HOURS

MATHEMATICS (Math.)

BRO. BELLMER, HEAD

BRO. BELZ, MR. JEHN, MR. KREIDER, MISS MORRISSEY,

MR. PECKHAM, MRS. PRATHER, MR. SCHRAUT

MATH. 13. PLANE GEOMETRY

NO COLLEGE CREDIT

This course is equivalent to one year of high school plane geometry. Three class periods a week.

First Semester, Each Year

MATH. 14. ELEMENTARY ALGEBRA II

NO COLLEGE CREDIT

This course is equivalent to the second year of high school algebra. Five class periods a week.

Each Semester, Each Year

MATH. 15. SOLID GEOMETRY

NO COLLEGE CREDIT

This course is equivalent to one semester of high school solid geometry. Three class periods a week.

Each Semester, Each Year

MATH. 101. COLLEGE ALGEBRA (for Science students)

THREE CREDIT HOURS

This course covers the fundamentals of second year of high school algebra and continues into topics of college algebra. Logarithms, ratio and proportion, with applications to chemistry, physics, and biology, are stressed. Three class periods a week.

Each Semester, Each Year

MATH. 102. PLANE TRIGONOMETRY

THREE CREDIT HOURS

Continuation of Math. 101. The usual subjects of plane trigonometry will be covered, together with applications to physics and the use of the slide rule. Prerequisite: Math. 101, Math. 105, or the equivalent of Math. 14 and consent of the instructor. Three class periods a week.

Each Semester, Each Year

MATH. 103. MATHEMATICS OF FINANCE I (for Business students)

THREE CREDIT HOURS

This course is similar to Math. 101, but stresses applications to problems in business and finance. Three class periods a week.

Each Semester, Each Year

MATH. 105. ALGEBRA (for Science students)

THREE CREDIT HOURS

This course reviews the fundamentals of two years of high school algebra and continues into the topics of college algebra. Five class periods a week.

First Semester, Each Year

MATH. 107. ALGEBRA (for Business students) THREE CREDIT HOURS

This course is similar to Math. 105, but is adapted to the needs of Business students. Five class periods a week. *Each Semester, Each Year*

MATH. 115. FRESHMAN MATHEMATICAL ANALYSIS FIVE CREDIT HOURS

Primarily for students in engineering and those majoring in one of the physical sciences or mathematics, this course covers the usual topics in plane trigonometry, together with linear and quadratic equations, inequalities, progressions, and the analytical treatment of loci. Prerequisite: Three years of high school mathematics or Math. 13 and 14. Five class periods a week.

Each Semester, Each Year

MATH. 116. FRESHMAN MATHEMATICAL ANALYSIS FIVE CREDIT HOURS

Continuation of Math. 115. Polar coordinates, complex numbers, theory of equations, conic sections, solid analytic geometry, and partial fractions. Prerequisite: Math. 115. Five class periods a week. *Each Semester, Each Year*

MATH. 121. COLLEGE ALGEBRA THREE CREDIT HOURS

Following a review of linear and quadratic equations, systems of equations and other topics of high school algebra, the topics covered are: progressions, logarithms, binomial theorem, complex numbers, determinants, partial fractions, theory of equations, and such additional topics in higher algebra as time permits. Prerequisite: Two years of high school algebra, or Math. 14. Three class periods a week. *Each Semester, Each Year—Evening*

MATH. 122. TRIGONOMETRY THREE CREDIT HOURS

The usual topics of plane trigonometry with applications; such additional pertinent topics as polar coordinates and complex numbers, if time permits. Open to students with two years of high school mathematics, although three years are advisable. Three class periods a week. *Each Semester, Each Year—Evening*

MATH. 123. ANALYTIC GEOMETRY FOUR CREDIT HOURS

The fundamental disciplines connected with plane and solid analytic geometry; the straight line, locus problems, transformation of coordinates, conic sections, the plane, line in space, quadric surfaces; applications to mechanics. Prerequisite: Math. 121 and 122 or equivalent. Four class periods a week.

Each Semester, Each Year—Evening

MATH. 201. DIFFERENTIAL AND INTEGRAL CALCULUS FOUR CREDIT HOURS

Differentiation of algebraic and transcendental functions with application to geometry and to physics. Integration of polynomials with applications to geometry and to physics. Fundamental theorem of integral calculus. Prerequisite: Math. 116 or Math. 123. Four class periods a week. *Each Semester, Each Year*

MATH. 202. DIFFERENTIAL AND INTEGRAL CALCULUS FOUR CREDIT HOURS

Continuation of Math. 201. Integration of algebraic and transcendental functions. Approximate integration; indeterminate forms; infinite series; multiple

integrals; application to geometry and physics; partial differentiation. Prerequisite: Math. 201. Four class periods a week. *Each Semester, Each Year*

MATH. 203. MATHEMATICS OF FINANCE II THREE CREDIT HOURS
Simple and compound interest, annuities, amortization and sinking funds, valuation of bonds and the mathematics of life insurance. Prerequisite: Math. 103, or Math. 107. Three class periods a week. *Each Semester, Each Year*

MATH. 301. DIFFERENTIAL EQUATIONS THREE CREDIT HOURS
Equations of the first order and first degree; linear equations of higher order with constant coefficients; the method of Frobenius; Euler's equations and other special equations; application to physics, chemistry, and engineering. Prerequisite: Math. 202. Three class periods a week. *Each Semester, Each Year*

MATH. 302. THEORY OF EQUATIONS THREE CREDIT HOURS
Complex numbers, integral and rational roots, general solution of the cubic and quartic equations, isolation of real roots, solution of numerical equations, determinants, system of linear equations, symmetric functions, elimination and resultants. Prerequisite: Math. 202 or registration therein. Three class periods a week. *First Semester, 1952-1953*

MATH. 311. MATHEMATICAL STATISTICS THREE CREDIT HOURS
Frequency distributions, graphic representation, averages, moments, measures of dispersion, normal curve, curve fitting, correlation theory with the emphasis on the mathematical derivations of the formulas. Prerequisite: Math. 202 or consent of the instructor. Three class periods a week. *First Semester, 1953-1954*

MATH. 312. MATHEMATICAL STATISTICS THREE CREDIT HOURS
A continuation of Math. 311. Probability and its relation to statistics, normal distribution, beta and gamma functions, general concepts of a distribution function of a continuous variable, normal correlation, surface, multiple and partial correlation, fundamentals of sampling theory. Fisher's t-distribution and the chi square distribution. Prerequisite: Math. 202 and 311. Three class periods a week. *Second Semester, 1953-1954*

MATH. 321. ADVANCED MATHEMATICS FOR ENGINEERS THREE CREDIT HOURS
Hyperbolic functions, elliptic integrals, infinite series. Fourier series, gamma functions, Bessel functions, partial differential equations, application to physics, chemistry and engineering. Prerequisite: Math. 202. (Math. 301 is recommended.) Three class periods a week. *First Semester, Each Year*

MATH. 322. ADVANCED MATHEMATICS FOR ENGINEERS THREE CREDIT HOURS
Introduction to vector analysis and to complex variables, with applications to physics and engineering. Prerequisite: Math. 202. (Math. 321 is recommended.) Three class periods a week. *Second Semester, Each Year*

MATH. 331. STATISTICS FOR ENGINEERS **THREE CREDIT HOURS**

Measure of central tendency, frequency distributions, dispersions, skewness and kurtosis, sampling and the determination of significant differences, correlation. Includes normal, chi-square, student's *t*, binomial, and Poisson distributions. Prerequisite: Math. 202. *To be announced*

MATH. 332. INDUSTRIAL AND ENGINEERING APPLICATIONS OF STATISTICS **THREE CREDIT HOURS**

A study of the application of statistics to quality control, job evaluation, merit rating and wage determination, personnel selection and testing, time study, design of experiments, and economic and market analysis. Prerequisite: Math. 331. *To be announced*

MATH. 401. COLLEGE GEOMETRY **THREE CREDIT HOURS**

Synthetic treatment of metric Euclidean geometry. Properties of the triangle, quadrangle, quadrilateral, coaxal circles, inversion, notable points, circles connected with a triangle, ruler and compasses construction. Prerequisite: Math. 115 or Math. 122. Three class periods a week. *First Semester, 1952-1953*

MATH. 403. BUSINESS STATISTICS **THREE CREDIT HOURS**

A survey course to familiarize the student with the methods of collecting, presenting, analyzing and interpreting statistical data. Graphic presentation, logarithmic, and semi-logarithmic charts, frequency distributions, time series, construction of index numbers, measures of dispersion, simple and multiple correlation. Prerequisite: Math. 103. Three class periods a week. *Each Semester, Each Year*

MATH. 411. THEORY OF PROBABILITY **THREE CREDIT HOURS**

Permutation and combination, complementary, conditional and unconditional compound probabilities, Bernoulli's theorem, Bayes' theorem, probability integral, distribution functions and continuous variables, binomial law, Poisson law, Normal law. Prerequisite: Math. 202. (Math. 311 is recommended.) Three class periods a week. *Second Semester, 1952-1953*

MATH. 416. INTRODUCTION TO THE CALCULUS OF FINITE DIFFERENCES **THREE CREDIT HOURS**

Divided differences, Lagrange's interpolation formula, difference operators, Herschel's theorem, interpolation, Newton's interpolation formula, interpolation by iteration, inverse interpolation, reciprocal differences, Thiel's interpolation formula, polynomials of Bernoulli and Euler, numerical differentiation and integration. Prerequisite: Math. 202 and consent of the instructor. Three class periods a week. *First Semester, 1952-1953*

MATH. 421. ADVANCED CALCULUS **THREE CREDIT HOURS**

Limits and continuity, derivatives and differentials, functions of several variables, partial differentiation, Riemann integral, multiple integrals, line integrals, and surface integrals. Prerequisite: Math. 202. Three class periods a week. *First Semester, 1952-1953*

MATH. 422. ADVANCED CALCULUS **THREE CREDIT HOURS**

Continuation of Math. 421. Infinite series, power series with applications, improper integrals, and implicit functions. Prerequisite: Math. 421. Three class periods a week.
Each Semester, 1952-1953

MATH. 431. VECTOR ANALYSIS **THREE CREDIT HOURS**

Vector algebra and calculus, gradient, divergence and curl. Application to physics. Prerequisite: Math. 202. Three class periods a week.
First Semester, 1952-1953

MATH. 432. FOURIER SERIES AND BOUNDARY VALUE PROBLEMS **THREE CREDIT HOURS**

Fundamental definitions, partial differential equations of physics, orthogonal sets of functions, fundamental properties of Fourier series, uniqueness of expansions, Bessel functions, and Fourier-Bessel expansions. Prerequisite: Math. 321 or Math. 202 and the consent of the instructor. Three class periods a week.
Second Semester, 1953-1954

MATH. 441. INTRODUCTION TO HIGHER ALGEBRA **THREE CREDIT HOURS**

The real number concept, sets, polynomial forms, matrices and linear transformations, introduction to the basic concepts of groups, rings, and fields. Prerequisite: Math. 202 and the consent of the instructor. Three class periods a week.
Second Semester, 1953-1954

MATH. 451. INTRODUCTION TO HIGHER GEOMETRY **THREE CREDIT HOURS**

Projections and rigid motions, theorem of Desargues, the principles of duality, homogeneous coordinates, linear dependence, harmonic division, cross ratio, projective transformations, discussion of projective, affine and metric geometries, projective theory of conics. Prerequisite: Math. 202 and consent of the instructor. Three class periods a week.
First Semester, 1953-1954

**MATH. 461. INTRODUCTION TO THE THEORY OF FUNCTIONS
OF A COMPLEX VARIABLE** **THREE CREDIT HOURS**

Fundamental concepts, Cauchy integral theorem, analytic functions, analytic continuation, conformal transformations, the calculus of residues, applications to physics and engineering. Prerequisite: Math. 421 or registration therein. Three class periods a week.
Second Semester, 1952-1953

MATH. 465. MODERN OPERATIONAL MATHEMATICS **THREE CREDIT HOURS**

The Laplace transformation and applications, partial differential equations, the inversion integral, applications to heat conduction, mechanical vibrations, and other problems. Prerequisite: Math. 202 and consent of the instructor. Three class periods a week.
Second Semester, 1952-1953—Evening

MEDICAL TECHNOLOGY (Met.)

DR. ABRAMSON, HEAD (*St. Elizabeth Hospital*)

DR. CAES, HEAD (*Good Samaritan Hospital*)

DR. OOSTING, HEAD (*Miami Valley Hospital*)

DR. THOMPSON, HEAD (*Veterans Administration Hospital*)

The work of the Senior Year in Medical Technology is done at Miami Valley Hospital, St. Elizabeth Hospital, Good Samaritan Hospital, or Veterans Administration Hospital. The courses are conducted by the respective Hospital Faculties.

MET. 450. INTRODUCTION TO MEDICAL TECHNOLOGY **SIX CREDIT HOURS**

A concentrated introduction to medical technology prepares the student for participation in the regular laboratory activities. This consists of two daily lectures on specific subjects pertaining to the laboratory diagnosis of disease stressing the anatomy and physiology of the organ involved followed by practical study of the tests involved.

MET. 451. URINALYSIS AND RENAL FUNCTION **THREE CREDIT HOURS**

Instruction in various methods of performing these tests with interpretation based on anatomical and physiological functions of the organs. Repeated studies stress need for accuracy.

MET. 452. HEMATOLOGY **FOUR CREDIT HOURS**

Instruction in various methods for studying the cellular components of the blood with practice to facilitate speed. Interpretation of findings based on anatomical and physiological functions of the cellular components of the blood.

**MET. 453. BACTERIOLOGY, SPUTUM, PARASITOLOGY,
FECES, AND SPECIAL FLUIDS** **FOUR CREDIT HOURS**

Instruction in various methods of bacteriological examination of various excreta or secretions of the human body; tests for reactions of the body to specific diseases; tests for and study of various parasites found as pathogenic organisms in the human body.

MET. 454. CHEMISTRY AND GASTRIC ANALYSIS **SIX CREDIT HOURS**

Instruction in biological chemical analyses pertaining to blood and to various excreta of the human body.

MET. 455. HISTOLOGY AND CYTOLOGY **THREE CREDIT HOURS**

Instruction in various methods of preparation for sectioning and staining of tissues in preparation for microscopic examination.

MET. 456. SEROLOGY AND SPINAL FLUIDS **FOUR CREDIT HOURS**

Instruction in the mechanism of and the performance of these tests, and some interpretation of the results.

MET. 457. ELECTROCARDIOGRAPHY; BASAL METABOLISM THREE CREDIT HOURS
The student familiarizes herself with the more commonly used machines, and masters the techniques of doing basal metabolisms and electrocardiograms.

MILITARY SCIENCE AND TACTICS (Mil.)

LT. COL. KINNEY, HEAD

MAJOR HARRIGAN, MAJOR JONES, CAPTAIN LLANA, WOJG SMITH

M/SGT. GABRIEL, M/SGT. MAUSHARDT, M/SGT. ROEBUCK,

SFC. EVANS, SFC. LOTT

MIL. 101-102. FIRST YEAR BASIC COURSE

THREE CREDIT HOURS

To lay the foundation of intelligent leadership through instruction in such cultural subjects as Military Policy of the United States, Military Problems of the United States, and Evolution of Warfare; to provide training in those military subjects common to all branches of the Army such as Individual Weapons and Marksmanship, Maps and Aerial Photographs, First Aid and Hygiene, and Leadership, Drill, and Exercise of Command. Theoretical and practical. Prerequisite to the specialized Advanced Course.

Full Year Course, Each Year

MIL. 201-202. SECOND YEAR BASIC COURSE

THREE CREDIT HOURS

Continuation of the above course, with some specialized branch training and minor tactics. Subjects include: Military Organization, Marksmanship and Weapons, Tactics and Techniques of the Rifle Squad, and Leadership, Drill, and Exercise of Command. Students occupy key non-commissioned positions in the cadet regiment. Prerequisite to the specialized Advanced Course. Outstanding graduates of the Basic Course receive Certificates of Military Training.

Full Year Course, Each Year

MIL. 301-302. FIRST YEAR ADVANCED COURSE

SIX CREDIT HOURS

Theoretical and practical instruction in Weapons, Gunnery, Communications, Combat Intelligence, Combat Orders, Field Fortifications and Tactics. Prerequisite, completion of the Basic Course. Credit is allowed, under certain limitations, for the Basic Course to veterans of World War II. Students selected for admission to the Advanced Course receive commutation of subsistence and uniforms from the Government during the two-year course. Attendance at a summer camp is required.

Full Year Course, Each Year

MIL. 401-402. SECOND YEAR ADVANCED COURSE

SIX CREDIT HOURS

Continuation of above course. Subjects include Military Administration, Military Law, Military Teaching Methods, Motors and Transportation, Supply and Evacuation, Troop Movement, Organization, Command and Staff, Tactics, The Military Team and New Developments. Prerequisite, satisfactory completion of First Year Advanced Course. Commissions are awarded, upon satisfactory completion of this course, in the Infantry or other branches of the service.

Full Year Course, Each Year

MODERN LANGUAGES

BRO. PERZ, HEAD

BRO. BECK, BRO. POITRAS, MISS REYST, MR. ROSENBERG

FRENCH (Fr.)

FR. 101-102. ELEMENTARY FRENCH SIX CREDIT HOURS
Elements of French, including pronunciation, reading, translation, grammar, dictation and conversation. *Full Year Course, Each Year*

FR. 201-202. INTERMEDIATE FRENCH SIX CREDIT HOURS
Grammar review, selected readings from modern authors, exercises in composition and conversation. *Full Year Course, Each Year*

FR. 303-304. MODERN FRENCH LITERATURE SIX CREDIT HOURS
A survey covering the chief literary movements, outstanding authors and works from the beginning of the eighteenth century to the present time. Lectures; discussions and reports on assigned readings. *Full Year Course, 1952-1953*

FR. 307-308. ADVANCED FRENCH COMPOSITION AND CONVERSATION SIX CREDIT HOURS
This course is intended for students who possess a general knowledge of French, but have not as yet mastered certain peculiarities of grammar and other difficulties of the written and spoken language. The course includes translation of texts of increasing difficulty from English into French. The oral exercises are based chiefly on material connected with these translations. *Full Year Course, 1952-1953*

FR. 401-402. FRENCH LITERATURE TO THE EIGHTEENTH CENTURY SIX CREDIT HOURS
A survey covering the chief literary movements, outstanding authors and works of this period. Lectures; discussions and reports on assigned readings. *Full Year Course, 1953-1954*

FR. 405-406. FRENCH LITERATURE OF THE TWENTIETH CENTURY SIX CREDIT HOURS
A survey of the literary movements, outstanding authors and works of the present century. Lectures; discussions and reports on assigned readings. *Full Year Course, 1953-1954*

GERMAN (Ger.)

GER. 101-102. ELEMENTARY GERMAN SIX CREDIT HOURS
Elements of German, including pronunciation, reading, translation, grammar, dictation and conversation. *Full Year Course, Each Year*

GER. 201-202. INTERMEDIATE GERMAN

SIX CREDIT HOURS

Grammar review, selected readings from modern authors, exercises in composition and conversation. *Full Year Course, Each Year*

GER. 301-302. GERMAN LITERATURE TILL 1800

SIX CREDIT HOURS

A survey of German Literature from the earliest times to the period of Romanticism. A study of literary movements, outstanding authors and works. Lectures; discussions and reports on assigned readings. *Full Year Course, 1953-1954*

GER. 303-304. GERMAN LITERATURE SINCE 1800

SIX CREDIT HOURS

A survey of German Literature since the Classical period. A study of literary movements, outstanding authors and works. Lectures; discussions and reports on assigned readings. *Full Year Course, 1953-1954*

GER. 305-306. SCIENTIFIC GERMAN

SIX CREDIT HOURS

A reading course intended to familiarize students with the technical vocabulary used in scientific fields. *Full Year Course, Each Year*

GER. 307. CHEMICAL GERMAN

THREE CREDIT HOURS

A course intended to train students to acquire a reading knowledge of German Chemical Literature. Required of students in Chemical Engineering and of those majoring in Chemistry. *First Semester, 1952-1953*

GER. 401-402. CLASSICAL DRAMA

SIX CREDIT HOURS

A study of the dramatic works of Lessing, Goethe and Schiller. Lectures; discussions and reports on assigned readings. *Full Year Course, 1952-1953*

GER. 403-404. MODERN GERMAN PROSE WRITERS

SIX CREDIT HOURS

The Novelle and the novel. A study of the principal authors and works of the eighteenth and nineteenth centuries. Lectures; discussions and reports on assigned readings. *Full Year Course, 1952-1953*

RUSSIAN (Rus.)

RUS. 101-102. ELEMENTARY RUSSIAN

SIX CREDIT HOURS

Designed to familiarize the beginner with the essentials of the spoken and written language. Vocabulary practice, simple sentence structure, conversational drills, and reading of modern text, with equal stress on each.

To be announced—Evening

RUS. 201-202. INTERMEDIATE RUSSIAN

SIX CREDIT HOURS

Review of the essentials of grammar, intensive conversational and comprehension exercises, reading of graded modern and contemporary prose and poetry. Prerequisite: Rus. 101-102, or equivalent. *To be announced—Evening*

RUS. 203-204. SCIENTIFIC RUSSIAN

SIX CREDIT HOURS

This course is given only at Wright-Patterson Air Force Base. Prerequisite: Rus. 101-102, or equivalent. *To be announced*

RUS. 301-302. RUSSIAN READING AND CONVERSATION SIX CREDIT HOURS

Intended for students who possess a general knowledge of Russian, but lack the practical experience of the spoken language. The conversation is based principally on more advanced reading material. Prerequisite: Rus. 201-202, or equivalent. *To be announced—Evening*

RUS. 401-402. TECHNICAL AND SCIENTIFIC RUSSIAN SIX CREDIT HOURS

A course intended to train students to acquire a reading knowledge of Russian scientific literature. Special grammatical constructions will be explained, as well as general techniques of translation. Prerequisite: Rus. 301-302. *To be announced—Evening*

SPANISH (Span.)**SPAN. 101-102. ELEMENTARY SPANISH SIX CREDIT HOURS**

Elements of Spanish, including pronunciation, reading, translation, grammar, dictation and conversation. *Full Year Course, Each Year*

SPAN. 201-202. INTERMEDIATE SPANISH SIX CREDIT HOURS

Grammar review, selected readings from modern authors, exercises in composition and conversation. *Full Year Course, Each Year*

SPAN. 205-206. SPANISH READING AND CONVERSATION SIX CREDIT HOURS

Intended for students who possess a general knowledge of Spanish, but lack the practical experience of the spoken language. *To be announced—Evening*

SPAN. 301-302. SPANISH LITERATURE SIX CREDIT HOURS

A survey of Spanish Literature, with special emphasis on the Golden Age and the modern period. Lectures; discussions and reports on assigned readings. *Full Year Course, 1952-1953*

SPAN. 303-304. SPANISH-AMERICAN LITERATURE SIX CREDIT HOURS

A study of the principal authors and works of the colonial, revolutionary and modern periods. Lectures; discussions and reports on assigned readings. *Full Year Course, 1953-1954*

SPAN. 401-402. MODERN SPANISH PROSE WRITERS SIX CREDIT HOURS

A study of the more important works of the outstanding novelists and essayists of the period from 1830 to the present time. Lectures; discussions and reports on assigned readings. *Full Year Course, 1953-1954*

SPAN. 403. MODERN SPANISH DRAMATISTS THREE CREDIT HOURS

A survey of the literary activities of the important dramatists from 1830 to the present time. Lectures; discussions and reports on assigned readings. *First Semester, 1952-1953*

SPAN. 404. DRAMA OF THE GOLDEN AGE SIX CREDIT HOURS

A study of the significance and principal works of the great dramatists of the

sixteenth and seventeenth centuries. Lectures; discussions and reports on assigned readings.

Second Semester, 1952-1953

MUSIC (Mus.)

MR. REICHARD, HEAD

MR. DEGER, MR. ENOCH, MR. HARPER, MR. HEIMANN, MR. KATZ,

MISS KLINE, MRS. MILES, MR. REGER, MISS THOMAS, MR. ZECH

Requirements for the Degree of Bachelor of Music:

ACADEMIC

English	9 Credit Hours
Speech	3 Credit Hours
History, Social Science	6 Credit Hours
Psychology	3 Credit Hours
Philosophy (300 or 400 courses)	6 Credit Hours
Electives (to include required basic Religion or Philosophy and Military Science courses)	14 Credit Hours
	<u>41 Credit Hours</u>

MUSICAL

Major (Piano, Organ, Violin, Voice, Theory, Composition)	20-24 Credit Hours
Minor (Voice, Instrument, Theory)	12 Credit Hours
Theory	20 Credit Hours
History, Literature, Appreciation	10 Credit Hours
Conducting, Instrumentation, Orchestration	5 Credit Hours
Ensemble (Chorus, Glee Club, Orchestra, Band)	2 Credit Hours
	<u>69-73 Credit Hours</u>

ELECTIVES (Academic or Musical)14-18 Credit Hours

1. Voice Majors will be required to take modern languages as a part of the academic electives.

2. Students majoring in Voice, Violin, Theory, or Composition will be required to use Piano as a Minor, or demonstrate ability to play the Piano at a level satisfactory to the Department.

3. For ELECTIVES (Academic or Musical), additional courses in Theory and Applied Music are strongly recommended.

Candidates for the degree of Bachelor of Arts may elect Music as their major study. A maximum of forty semester hours will be accepted for credit. Of these sixteen may be in Applied Music. A maximum of twenty-four credits in other musical subjects will be allowed independently of Applied Music.

The University offers the degree of Bachelor of Science in Music Education, including the courses required by the Ohio State Department of Education for teachers of Music in Elementary or High School. For the outline of this course, see Division of Education, Program IV.

MUS. 102. MUSIC LITERATURE AND APPRECIATION **TWO CREDIT HOURS**
A study of the masterpieces of music, with special reference to the listener. Its aim is to develop a broader understanding and an intelligent discrimination of music.
Second Semester, Each Year

MUS. 111-112. FIRST YEAR HARMONY **SIX CREDIT HOURS**
Formation of Scales and Intervals; positions and progressions of triads, seventh chords and their inversions; simple modulations; voice leading. Prerequisite: Knowledge of the fundamentals of music and preparatory study of piano or other keyboard instrument.
To be announced—Evening

MUS. 115-116-117. FIRST YEAR HARMONY **SIX CREDIT HOURS**
The material of the course is essentially the same as Mus. 111-112. Designed for students who study privately with members of the staff. Not open to students with credit for Mus. 111-112. Subject to private instruction fee.
On Request

MUS. 121-122. FIRST YEAR SIGHT SINGING AND EAR TRAINING **FOUR CREDIT HOURS**
Acquiring of technique for hearing melodic, harmonic, and rhythmic elements of music as based on the styles of the 18th and 19th centuries; study of the types of triads and intervals derived from them; practice in rhythmic reading; harmonic, melodic and rhythmic dictation; seventh chords, modal scales, key feeling and modulation. Prerequisite: Knowledge of the fundamentals of music and preparatory study of the piano or other keyboard instrument.
To be announced—Evening

MUS. 141. INTRODUCTION TO MUSIC **TWO CREDIT HOURS**
Designed for the student with no previous experience with the theory of music. Reading and notation of music is developed along with key signatures and fundamental harmonic progression. Simple part-writing, easy sight singing and an introduction to the piano keyboard. Elementary ear training and dictation.
First Semester, Each Year

MUS. 151-152. FIRST YEAR THEORY **TEN CREDIT HOURS**
Designed for Music Majors and students in Music Education; the course combines the materials of Music 111-112 and Music 121-122 into an integrated program. Not open to students who have credit for Mus. 111-112 or Mus. 121-122.
Full Year Course, Each Year

MUS. 211-212. SECOND YEAR HARMONY **SIX CREDIT HOURS**
Continuation of Music 111-112. Further study of modulation; altered and

mixed harmonies; melodic embellishment and figuration; analysis. Prerequisite: Mus. 111-112. *To be announced—Evening*

MUS. 215-216-217. SECOND YEAR HARMONY SIX CREDIT HOURS
Continuation of Mus. 115-116-117. Material essentially the same as Mus. 211-212. Not open to students who have credit for Mus. 211-212. Subject to private instruction fee. Prerequisite: Mus. 115-116-117, or Mus. 111-112. *On Request*

MUS. 221-222. SECOND YEAR SIGHT SINGING AND EAR TRAINING FOUR CREDIT HOURS
Continuation of Mus. 121-122. Addition of altered chords; practical application of non-harmonic tones in chorale-style harmonic dictation. Two and three-voice contrapuntal dictation. Further practice in sight singing. Prerequisite: Mus. 121-122. *To be announced—Evening*

MUS. 231. TEACHING MUSIC IN THE PRIMARY GRADES TWO CREDIT HOURS
Materials to be used in primary grade school music and their presentation; problems and possibilities of the primary school music program. Prerequisite: Knowledge of the fundamentals of music equivalent to Mus. 141. *First Semester, Each Year*

MUS. 232. TEACHING MUSIC IN THE ELEMENTARY GRADES TWO CREDIT HOURS
Materials to be used in elementary grade school music and their presentation; problems and possibilities of the elementary school music program. Prerequisite: Knowledge of the fundamentals of music equivalent to Mus. 141. *Second Semester, Each Year*

MUS. 235-236. VOICE CLASS FOUR CREDIT HOURS
Discussion and demonstration of the principles of good singing; development of voice; vocal literature. The course may be repeated to a total of eight credit hours with permission of the instructor. Prerequisite: permission of the instructor. *Full Year Course, Each Year*

MUS. 251-252. SECOND YEAR THEORY TEN CREDIT HOURS
Continuation of Mus. 151-152; for Music Majors and students in Music Education; the course combines the materials of Mus. 211-212 and Mus. 221-222 into an integrated program. Not open to students who have credit for Mus. 211-212 or Mus. 221-222. *Full Year Course, Each Year*

MUS. 301. HISTORY OF MUSIC I THREE CREDIT HOURS
Development of music, instruments, forms, sacred and secular, from the earliest records through the Classical period. The relationship of music to the other arts and to broad movements in society and civilization. *First Semester, Each Year*

MUS. 302. HISTORY OF MUSIC II THREE CREDIT HOURS
Music of the nineteenth century; Romanticism, impressionism; nationalism;

beginnings of the modern period. Relationship of music to social and cultural trends in Europe and America during the last one hundred and fifty years.

Second Semester, Each Year

MUS. 303. MODERN MUSIC

TWO CREDIT HOURS

A survey of contemporary music; its relationship to modernism in the other arts and to present-day society; American music.

To be announced

MUS. 311-312. EIGHTEENTH CENTURY COUNTERPOINT. FOUR CREDIT HOURS

A study of the contrapuntal technique of the eighteenth century, particularly as used in the instrumental works of Johann Sebastian Bach. Original compositions in the forms of the Invention, Chorale-Prelude and Fugue.

Full Year Course, 1952-1953

MUS. 315-316. THE OPERA

SIX CREDIT HOURS

A survey of opera from Gluck, Mozart and other eighteenth century composers to later Italian opera writers; the Wagnerian music drama; modern trends in opera.

To be announced—Evening

MUS. 321. INSTRUMENTAL CONDUCTING

TWO CREDIT HOURS

Methods of controlling tempo and the dynamic elements of instrumental musical groups; technique of the baton; score reading; rehearsal routine; practical experience with campus organizations. Prerequisite: Junior standing in music and permission of the instructor.

First Semester, Each Year

MUS. 322. INSTRUMENTATION AND ORCHESTRATION

THREE CREDIT HOURS

Scoring for string, reed and brass instruments, in small combinations and full orchestra and symphonic band; modern trends and techniques in orchestration. Prerequisite: Junior standing in music and permission of the instructor.

Second Semester, Each Year

MUS. 325. INSTRUMENTAL CLASS—STRINGED INSTRUMENTS

TWO CREDIT HOURS

Class instruction in stringed instruments; teaching of stringed instruments in the schools.

To be announced

MUS. 326. INSTRUMENTAL CLASS—REED AND WOODWIND INSTRUMENTS

TWO CREDIT HOURS

Class instruction in reed and woodwind instruments; teaching of reeds and woodwinds in the schools.

To be announced

MUS. 327. INSTRUMENTAL CLASS—BRASS INSTRUMENTS

TWO CREDIT HOURS

Class instruction in brass instruments; teaching brass instruments in the schools.

To be announced

MUS. 331. VOCAL MUSIC IN THE HIGH SCHOOL

TWO CREDIT HOURS

Materials used in the general music class and their presentation; glee club, choir, voice class, vocal ensembles. Prerequisite: Junior standing in Music Education.

First Semester, Each Year

MUS. 332. THE SCHOOL BAND AND ORCHESTRA **TWO CREDIT HOURS**

A general course in the organization and teaching of instrumental music in the schools; materials; survey of equipment and facilities necessary for the instrumental music program. Prerequisite: Junior standing in Music Education.

Second Semester, 1952-1953

MUS. 351. CHORAL CONDUCTING **TWO CREDIT HOURS**

Techniques needed to secure interpretative values in vocal groups; rehearsal routine; practical experience in experimental campus organizations. Prerequisite: Permission of the instructor.

Second Semester, Each Year

MUS. 411-412. MUSICAL COMPOSITION **FOUR CREDIT HOURS**

Prerequisites: Mus. 251-252, Mus. 311-312 or Mus. 417-418; other prerequisite courses to be determined in consideration of the needs of the student; permission of the instructor. Subject to private instruction fee.

To be announced

MUS. 413-414. FORM AND ANALYSIS **FOUR CREDIT HOURS**

A study of the structural designs used in musical composition; a survey of forms from the smallest to the largest; melodic figure and motive; sonata-allegro and rondo forms. Prerequisite: Mus. 251-252.

Full Year Course, 1952-1953

MUS. 415-416. MODERN HARMONIC STYLES **FOUR CREDIT HOURS**

Analysis of contemporary harmonic and contrapuntal devices. Original composition in the styles of the composers studied. Prerequisite: Permission of the instructor.

Full Year Course, 1953-1954

MUS. 417-418. SIXTEENTH CENTURY COUNTERPOINT **FOUR CREDIT HOURS**

A study of the medieval modes and the vocal polyphony of the motet and the Mass, up to and including five-part writing. Performance of sixteenth century polyphony and original student compositions. Prerequisite: Permission of instructor.

Full Year Course, 1952-1953

MUS. 421-422. LABORATORY IN ORCHESTRATION **TWO-SIX CREDIT HOURS**

Advanced work in orchestration; special problems in scoring for full orchestra, symphonic band or dance orchestra; transcription of orchestral works for band. Prerequisite: Mus. 322, permission of instructor.

On Request

MUS. 425-426. PROBLEMS IN INSTRUMENTAL MUSIC

FOUR-SIX CREDIT HOURS

Practical problems and experience in instrumental music in actual teaching situations approved by the Department of Music. Prerequisite: Senior standing in Music Education; permission of the Head of the Department.

Full Year Course, Each Year

MUS. 431-432. PROBLEMS IN VOCAL MUSIC **FOUR-SIX CREDIT HOURS**

Practical problems and experience in vocal music in actual teaching situations

approved by the Department of Music. Prerequisites: Senior Standing in Music Education; permission of the Head of the Department.

Full Year Course, Each Year

MUS. 441. HARMONIC ANALYSIS

TWO CREDIT HOURS

An analytical study of the harmonic and melodic structures of music from the early classics up to and including some of the modern composers. Prerequisite: Mus. 251-252.

First Semester, Each Year

APPLIED MUSIC

Credit for private instructions in piano, organ, violin, voice, stringed or wind instruments is allowed at the rate of two credit hours per lesson a week.

In order to register for credit toward a major in Applied Music, students must have studied sufficient preparatory material. In Piano, this should include ability to play major and minor scales in a moderate tempo in parallel motion, ability to play major and minor triads in arpeggio form in all keys. The student should have studied Hanon, Vol. I; Pischna; Czerny, Op. 299, or their equivalent; some of the Mozart and Haydn sonatas, *Little Preludes and Fugues* by Bach, *Songs Without Words* by Mendelssohn, the *Lyric Pieces* by Grieg, or the equivalent.

<i>Piano</i> , semester fee	\$20.00 to \$64.00
<i>Voice</i> , semester fee	80.00
(Class instruction in Voice is likewise offered; see course number 235-236.)	
<i>Violin</i> , semester fee	32.00 to 64.00
<i>Reed, Woodwind Instruments</i> , semester fee.....	40.00
<i>Cornet, Trumpet, Horn</i> , semester fee.....	40.00
<i>Trombone, Baritone, Tuba</i> , semester fee.....	32.00

ENSEMBLES

Orchestra (Dayton Junior Philharmonic Orchestra)

Band (Marching Band, Concert Band)

Chorus

Glee Clubs (Men's Glee Club, Women's Glee Club)

Ensembles (Brass Choir, String, Woodwind Ensembles)

Credit in Applied Music may be earned in Orchestra, Band, Chorus, and Glee Club by students enrolled in music courses. Credit will be allowed at the rate of one-half credit hour per semester in each organization. *Maximum:* Toward Music Major in A.B. degree, or as elective in other degrees, four hours in all organizations; toward B.M. or B.S. in Mus. Ed. degrees, six credit hours. Prerequisite: Permission of the director.

NURSING EDUCATION (Ned.)

SR. M. MINALIA, HEAD

SR. M. LUCY, MISS PERRY, MRS. BERNER, MISS HERRIGAN,

MISS ZIMMERMAN, MRS. HARGIS, MRS. EVERETT, MRS. FINKE,

MRS. WOESTE

Note: All courses in Nursing Education are restricted to registered nurses whose professional qualifications have been approved by the University of Dayton and the Department of Nursing Education.

NED. 317. CURRENT TRENDS IN AMERICAN NURSING THREE CREDIT HOURS
Discussion and evaluation of recent development and trends in professional nursing. Comparative analysis of trends in related fields of service.

Second Semester, 1953-1954

NED. 326. ADVANCED CLINICAL MEDICAL AND SURGICAL NURSING

THREE CREDIT HOURS

Advanced study and review of the principles and techniques involved in medical and surgical nursing. Consideration is given the latest developments of medical science and most recent information regarding causes, nursing care, and prevention of medical and surgical conditions; wide reading of the most recent literature in the field; study of social, economic, and medical factors involved, research problems, discussions, and reports of various medical and surgical situations with attendance at clinics, demonstrations, special lectures, and ward rounds.

To be announced

NED. 327. FIELD WORK

TWO-THREE CREDIT HOURS

Supplementary to Ned. 326. Observation and supervised experience in the hospitals, clinics, and other community agencies. Selected experience in the nursing of patients with medical and surgical conditions, special study of social and emotional factors in the conditions with emphasis on rehabilitation and health teaching.

To be announced

NED. 328. MEDICAL TERMINOLOGY

TWO CREDIT HOURS

This course is intended as an aid in assisting the student to interpret and understand various medical terms used in the study and practice of nursing.

First Semester, 1952-1953

NED. 329. PERSONNEL WORK AND COUNSELING IN SCHOOLS OF NURSING

THREE CREDIT HOURS

Principles of guidance with application to personnel problems and counseling in schools of nursing and nursing service. Emphasizes the responsibilities of the graduate nurse for guidance in all areas of nursing.

Second Semester, 1953-1954

NED. 330. SURVEY OF PUBLIC HEALTH NURSING

THREE CREDIT HOURS

Historical development of public health nursing; its underlying principles and

practices; discussion of the organized service given urban and rural areas under private and public auspices. Consideration of the responsibilities of the nurse for health teaching and community health service. *Second Semester, 1952-1953*

NED. 331. PRINCIPLES OF CLINICAL SUPERVISION THREE CREDIT HOURS

A study of the principles underlying effective supervision. The organization and administration of a supervisory program. Consideration of the supervisor's responsibility in relation to nursing education and nursing service.

First Semester, 1953-1954

NED. 331a. FIELD WORK

TWO-THREE CREDIT HOURS

Supplementary to Ned. 331. Experience in supervision arranged and directed according to needs and interests of individual students. Practice in planning and directing clinical experiences, and in studying current problems in supervision.

To be announced

NED. 332. PRINCIPLES AND METHODS OF TEACHING IN SCHOOLS OF NURSING

THREE CREDIT HOURS

A study of the principles and methods of teaching with application to nursing education. Criteria for selection and use of formal and informal methods of teaching. Planning of units of instruction, course outlines, and daily class preparation.

Second Semester, 1953-1954

NED. 333. TEACHING OF NURSING ARTS

THREE CREDIT HOURS

This course is designed for those who are preparing to teach the first course in the basic professional program. It includes a study of the aims and the scientific principles underlying nursing procedures, selection and the organization of the units of instruction, teaching facilities, and methods of teaching nursing arts. Experience is provided in the planning of instruction and demonstrations are given in methods of teaching. Prerequisite or Corequisite: Principles and Methods of Teaching in Schools of Nursing and Psychology of Learning.

Second Semester, 1952-1953

NED. 334. COMPARATIVE NURSING

THREE CREDIT HOURS

Experimentation and comparative studies in nursing procedures. Methods of analysis, evaluation, and reconstruction procedures. Individual projects selected for investigation, criticism, and revision.

First Semester, 1952-1953

NED. 335. CURRICULUM DEVELOPMENT IN NURSING I THREE CREDIT HOURS

A survey of the Nursing School Curriculum. Consideration is given to various factors involved in the total planning of the curriculum. This is given as an introduction to curriculum development.

First Semester, 1952-1953

NED. 336. CURRICULUM DEVELOPMENT IN NURSING II THREE CREDIT HOURS

A study of the principles and practices used in the development or revision of the nursing school curriculum as a whole. Consideration and practice in the formation of objectives, curriculum planning, and evaluations.

Second Semester, 1952-1953

NED. 337. TEACHING HEALTH IN THE BASIC NURSING CURRICULUM**THREE CREDIT HOURS**

Study of the underlying principles of Health Teaching in the Basic Curriculum in Nursing. Survey of opportunities for health teaching in the various areas of the curriculum; development of methods, projects; seminars in health teaching.

*Summer, 1952***NED. 337a. FIELD PRACTICE IN HEALTH TEACHING** **THREE CREDIT HOURS**

Opportunity for observation and participation in group and individual teaching is provided.

*To be announced***NED. 341. FOUNDATIONS OF NURSING EDUCATION** **THREE CREDIT HOURS**

Historical survey and analysis of trends in nursing education. Evaluation of nursing education in relation to allied health fields. Discussion of the preparation of nurses to meet the needs of health service in the future.

*Summer, 1952***NED. 344. LEGISLATION AFFECTING NURSING****THREE CREDIT HOURS**

A study of legislative trends in nursing and allied health fields with emphasis on their relationship in nursing education.

*Second Semester, 1953-1954***NED. 346. METHODS OF INTEGRATING THE SOCIAL AND HEALTH ASPECTS OF NURSING IN THE BASIC CURRICULUM** **THREE CREDIT HOURS**

A study of the principles and methods used in the integration of social and health aspects of nursing in the basic curriculum. Discussion of the need of the student nurse for an understanding of her role in a program of comprehensive nursing.

*Summer, 1954***NED. 348. ORGANIZATION AND ADMINISTRATION OF THE MODERN SCHOOL OF NURSING****THREE CREDIT HOURS**

A survey of the organization and administration of schools of nursing. Discussion of the various aspects involved in the selection of students, planning of the curriculum and general administration of the school. Presentation of the over-all picture of nursing education.

*To be announced***NED. 349. FIELD EXPERIENCE IN TEACHING****THREE-SIX CREDIT HOURS**

Students will observe and assist experienced teachers under direct supervision in selected areas of practice. The student's program will be planned in accord with her area of specialization. Application must be made in the program six months prior to actual practice and student must be free to participate in the program as arranged by her adviser. Class periods to be determined.

*To Be Arranged on Individual Basis***NED. 351-352. PATHOGENIC BACTERIOLOGY FOR NURSES****FOUR CREDIT HOURS**

Lectures and demonstrations on the microorganisms involved in infectious diseases. Clinical serological procedures and current concepts of immunology are presented.

To be announced

NED. 421. WARD TEACHING**THREE CREDIT HOURS**

A study of the responsibilities of the supervisor as a teacher. Discussion of the principles and methods of teaching with special application to teaching in the clinical field. *Summer, 1953*

NED. 431. ADVANCED OBSTETRICAL NURSING**THREE CREDIT HOURS**

Evaluation of the principles and methods involved in obstetric nursing; study of recent developments in the treatment of obstetric conditions; an analysis of nursing care. Health teaching and utilization of community resources for the promotion of maternal and infant welfare are emphasized. *To be announced*

NED. 432. FIELD WORK**TWO-THREE CREDIT HOURS**

Supplementary to Ned. 431. Practical experience in the application of the principles is stressed. Students participate in clinics, class, and home visitation, and have opportunity to participate in the total nursing care of the maternity patient. *To be announced*

NED. 442. SPEECH CORRECTION AND HEARING THERAPY**THREE CREDIT HOURS**

Treats the speech and hearing handicaps which frequently confront the teacher in the persons of elementary and secondary school pupils. The course endeavors to point out causes of these defects and ways of correcting them or surmounting them in furthering educational outcomes. *First Semester, 1953-1954*

NED. 451. SURVEY OF THE HISTORY OF NURSING**THREE CREDIT HOURS**

A study of the development of nursing from its origin to date, with special emphasis on the relationship of nursing history to world history. *Summer, 1953*

NED. 454. ADVANCED NURSING OF CHILDREN**FOUR CREDIT HOURS**

This course includes review of principles and techniques of the basic clinical course in nursing of children; organized tours to institutions and schools for the care and education of handicapped and neglected children; observation of the well child at day nurseries; attendance at special conferences and clinics. The course covers the period of 24 weeks and includes units in child development and child psychology. *To be announced*

NED. 455. FIELD WORK**TWO-FOUR CREDIT HOURS**

Supplementary to Ned. 454. Planned experience in various phases of child care; nursing of the new-born; the ill infant; medical and surgical diseases and conditions in the young and older child. Observation and care of children with contagious diseases, orthopedic conditions and other illnesses of childhood are obtained in the departments of St. Elizabeth Hospital and Barney Convalescent Hospital. The experience offers opportunity to apply principles of teaching and management in the Children's Department. *To be announced*

NED. 461. ADVANCED OPERATING ROOM TECHNIQUE**THREE CREDIT HOURS**

This course includes a review of the principles and methods of the basic course

in surgery with analysis and discussion of advanced practice in surgical technique. *To be announced*

NED. 462. FIELD WORK

TWO-THREE CREDIT HOURS

Supplementary to Ned. 461. Attendance at conferences, clinics, surgical demonstrations, field trips and organized practice experience in the various surgical specialties. *To be announced*

NED. 471. WARD ADMINISTRATION

THREE CREDIT HOURS

Principles and methods of organization and management as applied to the departmental unit of the hospital. Consideration of the Head Nurse's responsibility as an administrator; discussion of problems of organization and administration in the Ward Unit. Courses in ward administration and ward teaching are required courses in each clinical field. *Summer, 1954*

PHILOSOPHY (Phil.)

FR. RHODES, ACTING HEAD

MR. BAKER, FR. BLOEMER, FR. BRUDER, FR. ENDERS, FR. NEUBAUER

PHIL. 101-102. LOGIC

FOUR CREDIT HOURS

Deductive logic treats of concepts and terms; of judgments and propositions; of inference, particularly in the syllogism. Inductive logic treats of the validity and method of scientific investigation. *Full Year Course, Each Year*

PHIL. 105-106. PROBLEMS IN ETHICS

SIX CREDIT HOURS

This course is given at Mount St. John. Enrollment is restricted to members of the Society of Mary. *Full Year Course, Each Year*

PHIL. 205-206. PHILOSOPHICAL PSYCHOLOGY

FOUR CREDIT HOURS

Essential difference between living and non-living beings; nature of the vital principle and vital operations in plant and animal life; essential superiority of human life; external and internal sense perception; the origin of ideas and the nature of the intellect; sensory and rational appetite; the nature, origin, and immortality of the soul. *Full Year Course, Each Year*

PHIL. 301. INTRODUCTION TO PHILOSOPHY I

THREE CREDIT HOURS

A brief survey of the history of philosophy and introduction to logic. Intended primarily for Catholic students. *First Semester, Each Year*

PHIL. 302. INTRODUCTION TO PHILOSOPHY II

THREE CREDIT HOURS

A brief survey of epistemology, ontology, cosmology, psychology, theodicy, and ethics. Intended primarily for Catholic students. *Second Semester, Each Year*

PHIL. 303. COSMOLOGY

THREE CREDIT HOURS

A study of the principles of motion as found in Aristotle's philosophy of nature; matter and form; potency and act; types of causation. *First Semester, Each Year*

***PHIL. 304. PHILOSOPHY OF MAN** **FOUR CREDIT HOURS**

The nature and act of knowledge; external and internal senses; the appetitive aspect of man; sentient life; rational life; man's intellect and will; liberty; the human soul; the origin of life. *Second Semester, Each Year*

PHIL. 306. EPISTEMOLOGY **THREE CREDIT HOURS**

A study of the validity of intellectual and sensory knowledge in the light of Thomistic principles, with special reference to the difficulties posed by modern thought. *Each Semester, Each Year*

***PHIL. 307. PHILOSOPHY OF NATURE** **FIVE CREDIT HOURS**

Changeable being and its principles; the multiplicity and nature of bodies; quantity; motion; inorganic mobile being; living being: vegetative and sentient activities. *First Semester, Each Year*

PHIL. 324. ETHICS **THREE CREDIT HOURS**

A study of the human act in its nature, ends, norms, morality, properties, consequences, and modifiers; man's threefold relation: to God, self, and neighbor. *Each Semester, Each Year*

PHIL. 404. ONTOLOGY **THREE CREDIT HOURS**

A study of the existential philosophy of St. Thomas Aquinas; the application of the theory of act and potency to various phases of the problem of the one and the many; a study of causality, substance, and person. *First Semester, Each Year*

PHIL. 405. THEODICY **THREE CREDIT HOURS**

A philosophic study of the existence and nature of God; criticism of atheism and agnosticism; the relation of the universe to God; the problem of evil. *Second Semester, Each Year*

PHIL. 406. HISTORY OF GREEK PHILOSOPHY **THREE CREDIT HOURS**

This course is a survey of philosophical speculation among the Greeks, with special emphasis on the philosophies of Socrates, Plato, and Aristotle. *First Semester, Each Year*

PHIL. 407. HISTORY OF MEDIEVAL PHILOSOPHY **THREE CREDIT HOURS**

This course traces the development of philosophy from the second to the fourteenth century. *Second Semester, Each Year*

PHIL. 408. HISTORY OF MODERN PHILOSOPHY **THREE CREDIT HOURS**

This course outlines the development of philosophy from the fourteenth to the twentieth century. It discusses the progress and the retrogressions of Philosophy. *To be announced*

PHIL. 409. HISTORY OF CONTEMPORARY PHILOSOPHY **THREE CREDIT HOURS**

A rapid survey of the systems of philosophy that are prominent in Europe and America today. *To be announced*

PHIL. 413. PHILOSOPHY OF THE STATE**THREE CREDIT HOURS**

A consideration in the light of Christian thought, of the nature, origin, end, and functions of the state; the nature, forms, and functions of government; law and political authority; the rights and duties of citizens; patriotism, nationalism, and internationalism; the various kinds of political freedom.

*To be announced***PHIL. 414. PHILOSOPHY OF LAW****THREE CREDIT HOURS**

Aim of the course is to explain nature of law, natural law, positive law, juridical origin of law, effect of law, limitations of civil law, justice, genetic origin of law, rights, and duties.

*Second Semester, Each Year****PHIL. 416. HISTORY OF ANCIENT PHILOSOPHY****TWO CREDIT HOURS**

A study of the development of philosophical thought from the beginnings of speculation among the Greeks until the time of St. Augustine. Special emphasis is placed upon the contributions of Plato and Aristotle. Readings in the works of the authors are an integral part of the course.

*First Semester, Each Year****PHIL. 417. HISTORY OF MEDIEVAL PHILOSOPHY****FOUR CREDIT HOURS**

The tracing of the development of philosophy under the influence of Christianity from the time of St. Augustine to the full blossoming of Scholastic Philosophy in the thirteenth century is the aim of this course. Interest is centered upon the evolution of a truly Christian philosophy.

*Second Semester, Each Year****PHIL. 418. HISTORY OF MODERN PHILOSOPHY****FOUR CREDIT HOURS**

This course outlines the breakdown of philosophy at the end of the Medieval Period and studies the principal attempts to supply a philosophy during the period stretching from the thirteenth to the twentieth century. Emphasis is placed upon the contributions and errors of those systems which influence the contemporary scene.

*First Semester, Each Year****PHIL. 419. HISTORY OF CONTEMPORARY PHILOSOPHY****TWO CREDIT HOURS**

A rapid survey of the beginnings and present day development in Oriental Thought, and of the systems of philosophy that are prominent in Europe and America in this twentieth century. Stress is placed upon the development of Neo-Scholasticism.

*Second Semester, Each Year****PHIL. 421. METAPHYSICS I****THREE CREDIT HOURS**

Preface to Metaphysics; a study of the existing of sense perceptible Being in so far as it demands the existing of Subsisting Being—the existence and simplicity of God.

*First Semester, Each Year****PHIL. 422. METAPHYSICS II****THREE CREDIT HOURS**

An analysis of the attributes of participated Being and of Subsisting Being.

First Semester, Each Year

***PHIL. 423. METAPHYSICS OF KNOWLEDGE** THREE CREDIT HOURS
 The metaphysics of knowing; a metaphysical analysis of the knowledge of man and of the knowledge of God. *Second Semester, Each Year*

***PHIL. 424. PROBLEMS OF METAPHYSICS** THREE CREDIT HOURS
 Special problems of metaphysics in which the primary place is given to a metaphysical analysis of love and finality. *Second Semester, Each Year*

PHIL. 482. MEDICAL ETHICS THREE CREDIT HOURS
 Problems of medical practice; professional rights and duties; religion and ethics; problems concerning birth and death; problems concerning marriage and the family. Prerequisite: Phil. 324. *Second Semester, Each Year*

*The courses bearing an asterisk are conducted in the Carthagen Division, Carthagen, Ohio. Enrollment is limited to members of the Congregation of the Most Precious Blood.

PHYSICAL AND HEALTH EDUCATION (Phe.)

MR. SCHWARTZ, HEAD

MR. FERRAZZA, MISS MONNETTE, MR. NADEAU,

MR. QUINN, MRS. REEL, MR. SPEZZAFERRO

PHE. 101-102. PHYSICAL EDUCATION ONE CREDIT HOUR
 The teaching of fundamental skills in various individual sports and recreational activities, while aiming to promote vigorous health through large-muscle activities. Required of freshman men and women. Two class periods a week. *Full Year Course, Each Year*

PHE. 103. HEALTH ONE-HALF CREDIT HOUR
 The course aims to establish and promote individual health and proper health habits through a study of the fundamentals of physical well being. Required of freshman men and women. One class period a week. *First Semester, Each Year*

PHE. 104. HEALTH ONE-HALF CREDIT HOUR
 Continuation of Phe. 103. For freshman women. One class period a week. *Second Semester, Each Year*

PHE. 116. METHODS IN MINOR SPORTS (MEN) TWO CREDIT HOURS
 This course deals with instruction in the skills and methods in some of the so-called minor sports such as soccer, speedball, volleyball, touch football, six-man football, and similar games. Three class periods a week. *First Semester, Each Year*

PHE. 117. TEAM SPORTS (WOMEN) TWO CREDIT HOURS
 Skills and methods needed to teach hockey, soccer, speedball, basketball and volleyball. Four class periods a week. *First Semester, Each Year*

PHE. 118. RECREATIONAL SPORTS FOR WOMEN TWO CREDIT HOURS
Skills and methods needed to teach bowling, archery, golf and fencing. Three class periods a week.
Second Semester, Each Year

PHE. 119. THEORY AND TECHNIQUES OF OFFICIATING (MEN) ONE-HALF CREDIT HOUR
A development of knowledge of rules of football, basketball, baseball, and track, and the application of the knowledge to actual game situations. Two class periods a week.
First Semester, Each Year

PHE. 120. THEORY AND TECHNIQUES OF OFFICIATING (MEN) ONE-HALF CREDIT HOUR
Continuation of Phe. 119. Two class periods a week.
Second Semester, Each Year

PHE. 130. TEACHING OF FUNDAMENTAL RHYTHMS AND FOLK DANCING IN ELEMENTARY AND SECONDARY SCHOOLS TWO CREDIT HOURS
Includes a study and practice of simple rhythms, gymnastic dancing and clogging. Some attention will be given to social dancing and conducting of school dances. Two class periods a week.
Second Semester, Each Year

PHE. 131A (FOR MEN) PHE. 131B (FOR WOMEN) GAMES OF LOW ORGANIZATION TWO CREDIT HOURS
Actual teaching of team and non-team games and stunts for progressive game parties, social mixers, noon hour activities, and camp nights. Elementary and secondary school levels. Three class periods a week.
Second Semester, Each Year

PHE. 132. HYGIENE AND SANITATION (MEN) (WOMEN) TWO CREDIT HOURS
Personal health and prevention of disease in the family and community; relation of community health to disease control; important communicable diseases and their control. Lectures, discussions, and directed readings. Two class periods a week.
First Semester, Each Year

PHE. 133. PHYSICAL EDUCATION ACTIVITIES (MEN) THREE CREDIT HOURS
Conditioning, tumbling, horses, bucks, low and high bar, pyramid building, wrestling, trampoline, stunts with and without equipment. Five class periods a week.
Second Semester, Each Year

PHE. 201-202. PHYSICAL EDUCATION (WOMEN) ONE CREDIT HOUR
Continuation of Phe. 101-102. Two class periods a week.
Full Year Course, Each Year

PHE. 203-204. HUMAN ANATOMY FOUR CREDIT HOURS
A study of the structure of the human body; the skeleton, the muscles, circulatory system, respiratory, digestive and nervous systems. Two class periods a week.
Full Year Course, Each Year

PHE. 210. COACHING FOOTBALL AND BASKETBALL **TWO CREDIT HOURS**

Study of theory, strategy, generalship, styles of offense and defense, methods of organizing practice and handling men. Demonstration and practice in fundamentals for all positions. Two class periods a week. *First Semester, Each Year*

PHE. 212. COACHING BASEBALL AND TRACK **TWO CREDIT HOURS**

One-half the time will be spent on the theory and practice of each sport. Form and not athletic achievement will be stressed considering the abilities to be acquired. All events and positions will be given due consideration. Two class periods a week. *Second Semester, Each Year*

PHE. 221. THEORY OF PLAY AND RECREATION **TWO CREDIT HOURS**

The meaning of play; characteristics of the different age periods. Classification and organization of play activities suitable for different age levels. Two class periods a week. *Second Semester, Each Year*

PHE. 234. INDIVIDUAL SPORTS FOR WOMEN **TWO CREDIT HOURS**

Skills and methods needed to teach badminton, tennis, golf and softball. Three class periods a week. *Second Semester, Each Year*

PHE. 235. CAMPING AND PLAYGROUNDS **THREE CREDIT HOURS**

Study of facilities, programs, leadership, and administration of summer camps and playgrounds. Camp standards, program making and cabin counseling will be studied. Three class periods a week. *First Semester, Each Year*

PHE. 245. MODERN DANCE (WOMEN) **TWO CREDIT HOURS**

Techniques involved in modern dance with emphasis on composition. The study of dance as an art. Three class periods a week. *First Semester, Each Year*

PHE. 303. HUMAN PHYSIOLOGY **THREE CREDIT HOURS**

Lectures and laboratory problems demonstrating the physiological bases for objectives and content of physical education programs. Three class periods a week. Prerequisite: Phe. 203-204. *First Semester, Each Year*

PHE. 309. METHODS IN PHYSICAL EDUCATION **TWO CREDIT HOURS**

Application of principle of methodology to physical education; analysis and study of the techniques of measurement devices for grading and classifying students. Practice will be given in leadership in physical education activities. Two class periods a week. *Second Semester, Each Year*

PHE. 323. PROGRAM BUILDING **TWO CREDIT HOURS**

Theory and principles of program construction applied to physical education. Critical analysis of existing programs and evaluation of activities in the light of modern trends. Practical application of principles in the construction of a program for a specific situation. Two class periods a week. *First Semester, Each Year*

PHE. 327. PREVENTION AND CARE OF ATHLETIC INJURIES**TWO CREDIT HOURS**

Deals with the theory and practice of methods employed in proper training for sports and in caring for the common athletic and class injuries. Attention is centered on first aid work and practical application will be made insofar as possible. Two class periods a week. Prerequisite: Phe. 203-204.

*Second Semester, Each Year***PHE. 328. RECREATIONAL ACTIVITIES (MEN)****ONE CREDIT HOUR**

Teaching of the skills and methods of presenting individual activities such as tennis, badminton, handball, squash and bowling. Two class periods a week.

*Each Semester, Each Year***PHE. 329. RECREATIONAL ACTIVITIES (MEN)****ONE CREDIT HOUR**

Teaching of the skills and methods in golf and archery. Golf clubs must be furnished by the students. Two class periods a week. *Each Semester, Each Year*

PHE. 330. INSTRUCTOR'S FIRST AID**TWO CREDIT HOURS**

A knowledge of first aid for injuries in the home, school, and community. Lectures and discussions on first aid as well as applied laboratory experiences relating to dressing, bandaging, splinting, etc. Two class periods a week. Prerequisite: Phe. 203-204.

*Second Semester, Each Year***PHE. 346. PROBLEMS IN PHYSICAL EDUCATION FOR WOMEN****TWO CREDIT HOURS**

A study of problems in the organization of intramural sports programs for girls and women; policies, activities, types of competition; point systems, awards, and athletic associations. Two class periods a week.

*First Semester, Each Year***PHE. 401. PRINCIPLES OF PHYSICAL EDUCATION****TWO CREDIT HOURS**

A study of the aims, scope, and biological aspects of physical education with special treatment of its place in education. Two class periods a week.

*First Semester, Each Year***PHE. 402. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION****TWO CREDIT HOURS**

Problems of organization and administration of physical education with added emphasis on the supervision of required and elective courses, intramural athletics and interschool athletics. Two class periods a week.

*First Semester, Each Year***PHE. 403. PRINCIPLES AND ADMINISTRATION OF HEALTH EDUCATION****TWO CREDIT HOURS**

Problems related to the organization and administration of the School Health education including the setting up of a school health council and the school community relationships. Selling the program of Health Education to the community. Two class periods a week.

First Semester, Each Year

PHE. 405. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION**TWO CREDIT HOURS**

Critical analysis of existing testing methods in physical education. Study of current tests from the practical and theoretical viewpoint. The use of tests in the physical education program. Application of the principles of test construction to specific problems in physical education. Two class periods a week.

*First Semester, Each Year***PHE. 407. MODERN PROBLEMS IN PUBLIC HEALTH****TWO CREDIT HOURS**

The public health problems as they exist will be discussed with regard to their effect on living. Field trips will be included. Two class periods a week.

*First Semester, Each Year***PHE. 409. CORRECTIVE PHYSICAL EDUCATION****TWO CREDIT HOURS**

This course deals with the corrective or remedial measures to be used in providing proper exercises and procedures in handling individuals with handicapped conditions. Two class periods a week.

*Second Semester, Each Year***PHE. 410. TEACHING OF HEALTH (FOR STUDENTS IN ELEMENTARY EDUCATION)****THREE CREDIT HOURS**

A course designed to prepare teachers for a progressive type of health work in schools. Four major objectives: 1) to enrich scientific backgrounds basic to an appreciation of personal and community health; 2) to stimulate interest in better health teaching; 3) to apply scientific knowledge to the solution of school health problems; and 4) to develop standards and techniques for selecting suitable source material to be used in health teaching. Three class periods a week.

*First Semester, Each Year***PHE. 411-412. TEACHING OF HEALTH (FOR PHYSICAL EDUCATION MAJORS ONLY)****FOUR CREDIT HOURS**

Same course content as Phe. 410, but designed specifically for students majoring in Physical and Health Education.

*Phe. 411: Second Semester, Each Year**Phe. 412: First Semester, Each Year***PHYSICS (Phys.)****BRO. GRANDY, HEAD****MR. ROOT, MR. TOWNSEND, MR. WOTRING**

A major in physics shall consist of 18 to 24 credit hours, exclusive of Phys. 206-207-208. The student intending to specialize in this field should consult with the head of the department in arranging his course.

PHYS. 12. ELEMENTARY PHYSICS**NO COLLEGE CREDIT**

Primarily intended for those students who never have had a course in physics or wish to review the fundamentals of physics. Five class periods a week.

Each Semester, Each Year

PHYS. 101. HOUSEHOLD PHYSICS**THREE CREDIT HOURS**

A course of lectures, demonstrations and discussions designed for those who require an elementary knowledge of physics. The subject matter is especially adapted for students of home economics. Neither high school nor college mathematics is required. Three class periods a week.

*Second Semester, 1952-1953***PHYS. 201. GENERAL PHYSICS****FOUR CREDIT HOURS**

This course, especially adapted to the needs of pre-medical and pre-dental students, covers the fields of mechanics and heat. Three class periods and one laboratory period a week.

*First Semester, Each Year***PHYS. 202. GENERAL PHYSICS****FOUR CREDIT HOURS**

A continuation of Phys. 201, covering the fields of magnetism, electricity, sound and light. Three class periods and one laboratory period a week. Prerequisite: Phys. 201.

*Second Semester, Each Year***PHYS. 206. GENERAL PHYSICS****FOUR CREDIT HOURS**

This course is intended for students preparing to major in physics or engineering. The laboratory work involves careful determination and precise measurements based on the fundamental laws of physics. Mechanics and Sound comprise the subject matter of the course. Three class periods and one laboratory period a week. Prerequisite: Math. 115-116 or registration in Math. 116.

*Each Semester, Each Year***PHYS. 207. GENERAL PHYSICS****FOUR CREDIT HOURS**

A continuation of Physics 206, covering the fields of magnetism and electricity. Three class periods and one laboratory period a week. Prerequisite: Phys. 206.

*Each Semester, Each Year***PHYS. 208. GENERAL PHYSICS****FOUR CREDIT HOURS**

A continuation of Phys. 206-207. Subject matter, Heat and Light. Three class periods and one laboratory period a week. Prerequisite: Phys. 206.

*Each Semester, Each Year***PHYS. 301. THERMODYNAMICS****THREE CREDIT HOURS**

The general laws of thermodynamics; entropy, isothermal and adiabatic processes, the cycles; flow of fluids. Three class periods a week. Prerequisite: Math. 202; Corequisite: Physics 208.

*First Semester, 1953-1954***PHYS. 303. MECHANICS****THREE CREDIT HOURS**

This course discusses the fundamental concepts of mechanics; discusses the dynamics and statics of both the particle and the rigid body, constrained motion, oscillations and the motion of aggregates of particles. Brief consideration will be given deformable bodies and mechanics of fluids. Prerequisites: Math. 201-202, Phys. 206-207-208.

First Semester, 1952-1953

PHYS. 305-306. ELECTRICAL ENGINEERING**SIX CREDIT HOURS**

A series of lectures and laboratory exercises designed to familiarize the student with the elements of circuit theory, machinery, electronics and measurements. Two class periods and one laboratory period a week. Prerequisites: Physics 207 and Math. 202.
Full Year Course, 1953-1954

PHYS. 401. VIBRATION AND SOUND**THREE CREDIT HOURS**

Discusses vibrating systems, sources of sound, the transmission of sound, the reception of sound, and the application of acoustics. Three class periods a week. Prerequisites: Math. 201-202, Phys. 206-207-208. *Second Semester, 1953-1954*

PHYS. 404. OPTICS**THREE CREDIT HOURS**

This course discusses the wave theory of light, interference, diffraction, dispersion, polarization, velocity of light and electromagnetic theory of light. Three class periods a week. Prerequisites: Math. 201-202, Phys. 206-207-208.
Second Semester, 1952-1953

PHYS. 405. INDUSTRIAL ELECTRONICS**THREE CREDIT HOURS**

The purpose of this course is to give the students of physics the proper background for later actual experience. Three class periods a week. Prerequisite: Phys. 305-306.
First Semester, 1952-1953

PHYS. 408. ELECTRICITY AND MAGNETISM**THREE CREDIT HOURS**

This course discusses the electric field, electrostatic energy, conduction, the electro-magnetic induction, magnetic properties of matter. Also briefly, Maxwell's field equations; introduction to Quantum mechanics. Prerequisites: Math. 201-202, Phys. 206-207-208.
First Semester, 1952-1953

PHYS. 421. INTRODUCTION TO MODERN PHYSICS**THREE CREDIT HOURS**

This course treats selected topics of advanced physics not specifically dealt with in other courses. The choice of topics is such that a major physics student is assured a unified view of physics. Consideration will be given to such topics as the special theory of relativity, elements of wave mechanics, fundamental nuclear phenomena, etc. Three class periods a week. Prerequisites: Math. 201-202, Phys. 206-207-208.
Second Semester, 1952-1953

POLITICAL SCIENCE (Pol.)**BRO. A. ROSE, HEAD****BRO. LIEBLER**

Required courses for a major in Political Science are: Pol. 201, 202, 314, 412, 413, 421 or 431.

POL. 201. AMERICAN GOVERNMENT—NATIONAL**THREE CREDIT HOURS**

A functional study of the origin, organization, and operations of the federal government with a rapid survey of the American system of state and local governments.
Each Semester, Each Year

POL. 202. OHIO GOVERNMENT—STATE AND LOCAL THREE CREDIT HOURS
An examination of the state, county, and local government of Ohio with special reference to Montgomery County and the City of Dayton.

Each Semester, Each Year

POL. 304. EUROPEAN GOVERNMENTS THREE CREDIT HOURS
A general survey of the present status of the nations of Europe from the standpoint of government structure, operation, and policy.

Second Semester, 1952-1953

POL. 306. INTERNATIONAL LAW THREE CREDIT HOURS
An analysis of the development of international law, its theory and application to the various phases of international relations.

First Semester, 1952-1953

POL. 310. POLITICAL PARTIES THREE CREDIT HOURS
A descriptive analysis of the nature and interaction of parties, pressure groups, and the functioning of public opinion on the national and state level.

First Semester, 1953-1954

POL. 314. INTERNATIONAL RELATIONS THREE CREDIT HOURS
An exposition of the dynamic forces influencing nations in their conduct of world affairs.

Second Semester, 1953-1954

POL. 315. THE UNITED NATIONS IN ACTION THREE CREDIT HOURS
An evaluation of the actual achievements of the various organizations and specialized agencies operating under the United Nations.

Second Semester, 1952-1953

POL. 321. PROBLEMS OF THE PACIFIC THREE CREDIT HOURS
A critical examination of the development of the communist front in the Pacific areas and the attempts of the United States and other nations to meet this situation.

First Semester, 1952-1953

POL. 408. AMERICAN FOREIGN POLICY THREE CREDIT HOURS
An analytic study of policies and methods followed by the State Department in its relations with other countries.

Second Semester, 1953-1954

POL. 410. PUBLIC ADMINISTRATION THREE CREDIT HOURS
A study of the nation-wide Public Administration Service, of local and national departments, and bureaus in their operations.

First Semester, 1953-1954

POL. 412. CONSTITUTIONAL LAW THREE CREDIT HOURS
An exposition of the fundamental principles underlying the Constitution, Common Law, delegated powers of government, etc., with special application to contemporary situations.

Second Semester, 1953-1954

POL. 414. PHILOSOPHY OF LAW THREE CREDIT HOURS
Aim of the course is to explain nature of law, natural law, positive law, juri-

dical origin of law, effect of law, limitations of civil law, justice, genetic origin of law, rights, and duties. *Second Semester, Each Year*

POL. 415. PAN-AMERICAN RELATIONS **THREE CREDIT HOURS**

A development of the social, cultural, and political phases of relations among the American countries with special consideration of recent developments.

Second Semester, 1952-1953

POL. 417. HISTORY OF POLITICAL THOUGHT **THREE CREDIT HOURS**

A general survey of the development of political philosophy amid the interplay of the opposed principles of autonomy and authority from the days of the Ancient Chinese, the Greeks and the Romans, through the Patristic, the Medieval, the Renaissance, the Reformation and the Revolutionary Periods up to and including its culmination in the modern theories of anarchism, democratic liberalism and state absolutism.

First Semester, 1952-1953

POL. 421. GOVERNMENT SEMINAR **THREE CREDIT HOURS**

Open only to majors in Political Science. Group discussions and projects on pertinent topics.

First Semester, 1952-1953

POL. 431. SPECIAL PROBLEMS IN THE STUDY OF GOVERNMENT

ONE-FOUR CREDIT HOURS

Open to selected students with the consent of the Head of the Department. Development of a research problem in government. *First Semester, 1953-1954*

PSYCHOLOGY (Psych.)

FR. COLLINS, HEAD

MR. BOWERS, MR. GEDEON, MRS. GALLICO,

MR. CAHALAN, FR. ROESCH

PSYCH. 201. INTRODUCTORY PSYCHOLOGY **THREE CREDIT HOURS**

A survey of the field of psychology directed toward understanding the integrated personality and the factors involved in its development. This course is prerequisite for all other courses in the departments of Psychology and Education. *Each Semester, Each Year*

PSYCH. 202-203. EDUCATIONAL PSYCHOLOGY **SIX CREDIT HOURS**

Introduction to the science of education; application of the methods and results of experimental psychology to the problems of training children. (See Educ. 202-203.) *Full Year Course, Each Year*

PSYCH. 205. APPLIED PSYCHOLOGY **THREE CREDIT HOURS**

This course parallels the course in Introductory Psychology. Stress is placed upon the application of psychology and less attention is given to various theories and discussions which are largely physiological in content. At the discretion of the respective Deans, this course may replace Introductory Psychology. *To be announced—Evening*

PSYCH. 302. ELEMENTARY STATISTICS **THREE CREDIT HOURS**

Frequency distributions, central tendency, dispersion, percentiles, probability curve and elementary theory of errors, theory of curve fitting and least squares, correlation table and coefficients of correlation. *First Semester, Each Year*

PSYCH. 304. ADOLESCENT PSYCHOLOGY **THREE CREDIT HOURS**

A study of the inter-related physical, physiological and mental changes associated with adolescence. Interests and ideals. Social tendencies and adjustments. Causal factors in maladjustment and delinquency among adolescents. *First Semester, Each Year*

PSYCH. 305. MENTAL HYGIENE **THREE CREDIT HOURS**

Beginning with presentation of the characteristic features of normal, integrated behavior, this course deals with the types, causes, treatment and prevention of personality maladjustments. *Each Semester, Each Year*

PSYCH. 306. CHILD PSYCHOLOGY **THREE CREDIT HOURS**

A general study of the child's mind, its nature and original endowment; characteristics dominant at different ages and their significance for the teacher; the development of mental traits and abilities, of moral life and character, and the creative activities of a child. *Second Semester, Each Year*

PSYCH. 308. EXPERIMENTAL PSYCHOLOGY I **THREE CREDIT HOURS**

Detailed study of sensory processes; general problem of sensation: conditions, types, theories; nature, origin, and function of images; perception of space, time and movement; theory of perception. Laboratory, typical individual and group experiments in sensation, perception, reaction-time and attention. *First Semester, Each Year*

PSYCH. 309. EXPERIMENTAL PSYCHOLOGY II **THREE CREDIT HOURS**

Detailed study of learning and thought activities; memory, association; work and fatigue; the effective states; higher thought processes, volition. Laboratory, typical individual and group experiments in learning, memory, association, work and fatigue, higher thought processes, volition. *Second Semester, Each Year*

PSYCH. 312. ABNORMAL PSYCHOLOGY **THREE CREDIT HOURS**

Description, etiology and therapy. Clinics will be arranged with the State Hospital. Prerequisite: Psych. 305. *Second Semester, Each Year*

PSYCH. 402. PSYCHOLOGICAL TESTS AND MEASUREMENTS I **THREE CREDIT HOURS**

Ethics involved; historical background of testing; characteristics and criteria of tests; the survey and evaluation of tests and measures of early childhood, intelligence (individual and group), achievement (aptitude, interest, attitude), and personality (including the projective techniques). *First Semester, Each Year*

PSYCH. 403. PSYCHOLOGICAL TESTS AND MEASUREMENTS II**THREE CREDIT HOURS**

Psychological issues in mental testing; applications of mental tests (interpretations). Laboratory, individual intelligence testing; tests used for screening purposes.

*Second Semester, Each Year***PSYCH. 408. SOCIAL PSYCHOLOGY****THREE CREDIT HOURS**

The study of social behavior from the standpoint of experimental psychology. Influence of social factors on the development of personality. Attitudes, opinions and propaganda. Suggestion, social facilitation and competition.

*Second Semester, Each Year***PSYCH. 409. HISTORY OF EXPERIMENTAL PSYCHOLOGY. THREE CREDIT HOURS**

The course aims to view modern psychological problems in the light of their historical antecedents, sketching the development of the influences of philosophy and the sciences upon the mental testing and the psycho-physical streams of research from the early 19th century to the present time. Major contemporary schools of psychology will be analyzed and important trends in current techniques, theories and principles will be emphasized.

*First Semester, Each Year***PSYCH. 412. INTERVIEWING AND COUNSELING PROCEDURE****THREE CREDIT HOURS**

Analysis, evaluation, and practice in the uses of techniques and procedure in counseling and interviewing. Specific practical suggestions in counseling and interviewing individuals with problems of educational, vocational, social, and emotional adjustment. Addressed to persons who deal professionally with individuals in a counseling relationship such as high school and college counselors, social workers, personnel workers, teachers, ministers, and others in related fields. Prerequisite: Junior or senior standing and twelve hours of Psychology, three of which must be Psych. 305.

*Second Semester, Each Year***PSYCH. 420. INDUSTRIAL PSYCHOLOGY****THREE CREDIT HOURS**

Psychological aids in the selection of employees; industrial efficiency; accident prevention; other aspects of personnel administration. Demonstrations of psychological tests and other scientific procedures, with an account of their use in present day industry and suggestions for their introduction in various types of industrial organization.

*First Semester, Each Year***PSYCH. 454-455. PHYSIOLOGICAL PSYCHOLOGY I AND II SIX CREDIT HOURS**

The course aims to acquaint the student with the relation of mental phenomena to physiological problems. Emphasis is placed on the facts of the anatomy and the physiology of the central and autonomic nervous systems and on the physiology of the special senses.

Full Year Course, Each Year

RADIOLOGICAL TECHNIQUE (Rad.)DR. NICOLL, HEAD (*Miami Valley Hospital*)DR. SNOW, HEAD (*St. Elizabeth Hospital*)

The work of the Senior Year in Radiological Technique is done at Miami Valley Hospital or St. Elizabeth Hospital. The courses are conducted by the respective Hospital Faculties.

RAD. 451. RADIOLOGICAL PHYSICS**THREE CREDIT HOURS**

This is a practical course in X-ray physics and its application to radiography. Fundamental electric concepts, electron theory, and the X-ray tube. Basic X-ray generating circuits.

RAD. 452. THE X-RAY MACHINE**THREE CREDIT HOURS**

A general discussion on the X-ray apparatus; a knowledge of the controls and the indicating instruments on the X-ray panel. Technique of manipulation of the X-ray machine. Essentials of an X-ray generating apparatus.

RAD. 453. PROCESSING TECHNIQUE**TWO CREDIT HOURS**

Processing technique acquaints the student with development, fixing, and washing of films; procedures—care of films, screens, saucers, etc.; solutions—their composition and action, preparation and care; efficiency—controls, timing, wet viewing; dark room design—equipment, facilities, lighting, ventilation, and drying.

RAD. 454. ROUTINE STANDARD POSITIONING**EIGHT CREDIT HOURS**

Positioning in general, positioning in particular cases; demonstration; actual positioning with equipment and models; technical factors; systematic radiographic procedure; resultant radiographs; a detailed study of the roentgenogram.

RAD. 455. SPECIAL EXAMINATIONS USING OPAQUE MATERIALS**SIX CREDIT HOURS**

Examinations with contrast media; initial preparation, medium used; roentgen studies.

RAD. 456. FLUOROSCOPIC PROCEDURE**TWO CREDIT HOURS**

Technical factors in fluoroscopy; general assistance to the diagnostician; precautions and protection.

RAD. 457. RADIATION THERAPY**EIGHT CREDIT HOURS**

Knowledge of the X-ray for therapeutic purposes. Operation and care of the therapy equipment. Record keeping; positioning of patients under the supervision of the radiologist.

RELIGION (Rel.)

FR. LEIMKUHLER, HEAD

BRO. BECK, FR. MONHEIM, FR. STUEVE

BASIC COURSES: for Catholic students in need of a thorough review of basic Catholic teaching; for non-Catholic students who, with permission of the Dean, may wish to follow these basic courses and receive credit.

REL. 101. CHRISTIAN DOCTRINE **TWO CREDIT HOURS**

Explanation of the Creed according to the revised Baltimore Catechism, No. 3.
First Semester, Each Year

REL. 102. CHRISTIAN MORALS **TWO CREDIT HOURS**

Explanation of the Commandments according to the revised Baltimore Catechism, No. 3.
Second Semester, Each Year

REL. 201. CHRISTIAN WORSHIP **TWO CREDIT HOURS**

Explanation of the Sacraments according to the revised Baltimore Catechism, No. 3.
First Semester, Each Year

INTERMEDIATE COURSES: for Catholic students who qualify for courses in religion which effect a synthesis of the teachings of Christianity from the life of Christ in the Gospel setting.

REL. 103. LIFE OF CHRIST, BOOK I **TWO CREDIT HOURS**

A study of the birth and early life of Christ, with emphasis on the doctrines of the Incarnation, the Mother of God, St. Joseph.
First Semester, Each Year

REL. 104. LIFE OF CHRIST, BOOK II **TWO CREDIT HOURS**

A study of the public life of Christ, with emphasis upon Christian morals from the Sermon on the Mount and the social message of the Gospels as a way of life.
Second Semester, Each Year

REL. 202. LIFE OF CHRIST, BOOK III **TWO CREDIT HOURS**

A study of the passion, death, and resurrection of Christ, with emphasis upon these doctrines.
First Semester, Each Year

REL. 203. CHRISTIAN MARRIAGE **TWO CREDIT HOURS**

A detailed study of the encyclical by Pius XI "On Christian Marriage" with emphasis upon the nature and dignity of marriage, its blessings and benefits, the vices opposed, impediments, and attitudes.
Second Semester, Each Year

ADVANCED COURSES: for electives, major, and minor in RELIGION. Electives may be chosen, with permission of the Dean, by any student with junior or senior rating. Eight credit hours in Basic and/or Intermediate courses, or their equivalent in transfer, are required to pursue a major or minor in RELIGION.

REL. 320. SOCIAL JUSTICE IN THE MODERN WORLD THREE CREDIT HOURS
A detailed study of the encyclical by Pius XI on "Reconstructing the Social Order" with emphasis on the historical background, papal principles, and their application to current problems of the socio-economic order. Accredited in Sociology. *First Semester, 1952-1953*

REL. 321. THE ANSWER TO COMMUNISM THREE CREDIT HOURS
A detailed study of the encyclical by Pius XI on "Atheistic Communism" with emphasis upon the historical background of Communism, its doctrinal errors, and social justice as the remedy. Accredited in Sociology. *Second Semester, 1952-1953*

REL. 330. THE MYSTICAL BODY THREE CREDIT HOURS
A detailed study of the encyclical by Pius XII on "The Mystical Body" with emphasis upon the Church as the basis of the social order, the scope and norm of society, the basis of authority, and the right approach to non-Catholics. *First Semester, 1952-1953*

REL. 331. THE SACRED LITURGY THREE CREDIT HOURS
A detailed study of the encyclical "Mediator Dei" by Pius XII, with emphasis upon a "social piety" that stems from the concept of the Mystical Body, and the doctrinal bases for liturgical observances. *Second Semester, 1952-1953*

*REL. 409. OLD TESTAMENT PROPHETS FOUR CREDIT HOURS
Special Introduction to the Old Testament Prophets. Exegesis of selected passages of Isaiah, Jeremiah, Ezekiel, Daniel. *Second Semester, Each Year*

REL. 420. RELIGION AND SCIENCE THREE CREDIT HOURS
A study of the relations of religion and science; an inquiry into the foundations of religion and science; proof of compatibility of religion and science as demonstrated from history. Science is shown as a source of prayerful contemplation of creation. *Second Semester, 1953-1954*

REL. 421. CATHOLIC-ACTION STUDY THREE CREDIT HOURS
A detailed study of Catholic-Action from papal pronouncements and their application in various countries for the rechristianization of the world. *Second Semester, 1953-1954*

REL. 430. MARIOLOGY THREE CREDIT HOURS
A detailed study of the prerogatives of the Mother of God, the doctrine of each and their relationships with each other, as well as their applications to the Marian apostolate. *First Semester, 1953-1954*

REL. 431. CHURCH AND STATE THREE CREDIT HOURS
A careful study of the nature and end of the Church and the State in the light of Christian principles; an appraisal of the application of these principles in the light of history; and the establishment of the norm of cooperation, not conflict. Accredited in Political Science. *First Semester, 1953-1954*

*The course bearing an asterisk is conducted in the Carthagena Division, Carthagena, Ohio. Enrollment is limited to members of the Congregation of the Most Precious Blood.

SECRETARIAL STUDIES (Sec.)

MRS. MILLER, HEAD

MRS. CIVILLE, MR. KRIEGBAUM

SEC. 101. ELEMENTARY SHORTHAND THREE CREDIT HOURS

Gregg Shorthand is the system employed. Using the functional method, the entire theory is covered during the first semester. Transcription is introduced. Five class periods a week. *Each Semester, Each Year*

SEC. 102. ELEMENTARY SHORTHAND THREE CREDIT HOURS

Gregg theory is reviewed. Reading practice continues but transcription is emphasized. Five class periods a week. *Each Semester, Each Year*

SEC. 103. ELEMENTARY TYPEWRITING THREE CREDIT HOURS

The keyboard is memorized. Drill is given in the function and care of the machine. A slow copying ability is the aim of this course. Five class periods a week. For use of typewriter, \$5.00 per semester. *Each Semester, Each Year*

SEC. 104. ELEMENTARY TYPEWRITING THREE CREDIT HOURS

The aim is to develop further skill in the use of the typewriter and to provide some experience in letter arrangement and simple tabulations. Five class periods a week. For use of typewriter, \$5.00 per semester. *Each Semester, Each Year*

SEC. 105. SECRETARIAL ACCOUNTING THREE CREDIT HOURS

A short course in accounting especially designed for private secretaries; covers the fundamental principles of accounting as applied to mercantile and personal service enterprises operated by sole proprietors. Two class periods and two laboratory periods a week. *First Semester, Each Year*

SEC. 106. SECRETARIAL ACCOUNTING THREE CREDIT HOURS

This course develops further the accrual basis of accounting for mercantile enterprises, with emphasis on partnership transactions, but with an introduction to corporation accounting. Practice sets of a general nature are introduced. Two class periods and two laboratory periods a week. *Second Semester, Each Year*

SEC. 107. PERSONAL TYPEWRITING TWO CREDIT HOURS

The aim is to familiarize the student with the keyboard and the various parts of the machine and to apply the typing machine to personal typing problems. Three class periods a week. For use of typewriter, \$3.00 per semester. *Each Semester, Each Year*

- SEC. 108. PERSONAL TYPEWRITING TWO CREDIT HOURS
The students are encouraged to bring in personal problems of their own, such as themes, outlines, postal card messages, personal letters, etc. Continued emphasis is placed on the improvement of skill so that vocational typewriting power may be developed for those students who will continue in other typewriting classes. Three class periods a week. For use of typewriter, \$3.00 per semester.
Each Semester, Each Year
- SEC. 110. SECRETARIAL MATHEMATICS THREE CREDIT HOURS
Review and practice of the more common mathematical usages found in business offices; development of proficiency in these functions. Three class periods a week.
First Semester, Each Year
- SEC. 201. ADVANCED SHORTHAND THREE CREDIT HOURS
Principles are reviewed. Graded dictation is begun. Sustained writing periods are increased. Five class periods a week.
Each Semester, Each Year
- SEC. 202. ADVANCED SHORTHAND THREE CREDIT HOURS
Rapid reading is emphasized. Practical office dictation speeds are employed. Five class periods a week.
Each Semester, Each Year
- SEC. 203. ADVANCED TYPEWRITING THREE CREDIT HOURS
Advanced practice in various office skills. Survey of all letter forms and tabulation. Five class periods a week. For use of typewriter, \$5.00 per semester.
Each Semester, Each Year
- SEC. 204. ADVANCED TYPEWRITING THREE CREDIT HOURS
Designed to develop practice in business forms, more complicated tabulations, legal typing, etc., with emphasis upon office production standards; speed work. Five class periods a week. For use of typewriter, \$5.00 per semester.
Each Semester, Each Year
- SEC. 205. SECRETARIAL THEORY THREE CREDIT HOURS
A study of the duplicating processes, including mimeograph and hectograph. Practice in the use of the dictaphone, sound scribe, calculating machines, book-keeping machinery. Filing practice is also studied. Three lecture and two laboratory periods a week.
First Semester, Each Year
- SEC. 206. SECRETARIAL THEORY THREE CREDIT HOURS
Advanced training in color duplicating processes, dictating machine, and filing techniques. Three lecture and two laboratory periods a week.
Second Semester, Each Year
- SEC. 301. METHODS IN SOCIAL-BUSINESS SUBJECTS THREE CREDIT HOURS
Objectives, instructional materials, teaching procedures, curricular organization and other teaching problems in the Social-Business program; emphasis on visual aids and projects in the field. Three class periods a week.
First Semester, Each Year

SEC. 302. TEACHING OF COMMERCIAL SUBJECTS **FOUR CREDIT HOURS**

This course applies to the general principles of teaching high school commercial subjects. It includes a survey of commercial textbooks, curricula construction, testing programs, professional periodicals, commercial teacher organizations, commercial clubs, etc. Four class periods a week.

First Semester, Each Year

SEC. 303. DICTATION AND TRANSCRIPTION **THREE CREDIT HOURS**

Rapid dictation and transcription. Phraseology of a technical nature is taken up. Three class periods a week.

First Semester, Each Year

SEC. 304. DICTATION AND TRANSCRIPTION **THREE CREDIT HOURS**

Industrial and civil service testing programs are studied. Three class periods a week.

Second Semester, Each Year

SEC. 403. ADVANCED DICTATION AND TRANSCRIPTION. THREE CREDIT HOURS

Gregg Reporting Shortcuts are studied. Rapid dictation and transcription. Three class periods a week.

First Semester, Each Year

SEC. 404. ADVANCED DICTATION AND TRANSCRIPTION. THREE CREDIT HOURS

Gregg Shortcuts are continued. Legal dictation and transcription. Three class periods a week.

Second Semester, Each Year

SEC. 409. OFFICE MANAGEMENT **TWO CREDIT HOURS**

The technical skill of a secretary must be supplemented by various other abilities. This course is concerned with the management and organization of a modern office, handling appointments, managing callers, bank procedures. Two class periods a week.

Second Semester, Each Year

SEC. 410. OFFICE WORK **THREE CREDIT HOURS**

First-hand information and experience in actual office work. Each student spends not less than sixty clock hours working in some office. Prerequisite: Consent of the instructor. May be taken either semester as a whole, or one hour either semester and two hours the other.

Each Semester, Each Year

SOCIOLOGY (Soc.)

MR. HUTH, HEAD

FR. FRIEDEL, MRS. NIELSEN

The following courses are required of all students who select Sociology as their major subject: Soc. 201, 202, 401, and 414.

SOC. 201. GENERAL SOCIOLOGY **THREE CREDIT HOURS**

The basic course in the principles of sociology; an introduction to the fundamental concepts of modern sociology. A systematic explanation of man's social nature, types of groups and institutions, social processes, and social change. A prerequisite for specialized courses in sociology.

Each Semester, Each Year

SOC. 202. SOCIAL PROBLEMS**THREE CREDIT HOURS**

This course deals with the facts of social pathology, the maladjustments of society. The aim is to provide a clear understanding of the causes, extent, treatment, mitigation, and prevention of abnormal conditions affecting society. Required for advanced courses in sociology. *Second Semester, Each Year*

SOC. 203. SOCIOLOGY FOR NURSES**ONE CREDIT HOUR**

A short course in the principles and problems of sociology with special application to the nursing profession; nurse-patient situations; nurse-doctor problems; nurse-staff relationships; problems of the nurse concerning the patient's relatives and friends. *First Semester, Each Year*

SOC. 301. MARRIAGE AND THE FAMILY**THREE CREDIT HOURS**

In this course such topics as the following are considered: courtship and mate selection; personality and marital adjustment; the influence of social changes; means of ensuring family integrity; programs for the improvement and reconstruction of family life. *First Semester, 1953-1954*

SOC. 304. NATIONAL AND RACIAL MINORITIES**THREE CREDIT HOURS**

This course is concerned with the contributions of the "Old" and the "New" immigration to American life; immigration laws and policies; adjustment problems of the Negro, the Jew, and the immigrant; techniques of social control by the dominant group; types of minority counter-assertions. *Second Semester, 1953-1954*

SOC. 307. CRIMINOLOGY AND PENOLOGY**THREE CREDIT HOURS**

A review of the etiology, extent, treatment, and means for the prevention of crime; history and methods of punishment; administration of criminal law; police systems; prisons and prison reform; indeterminate sentence, probation, parole, and pardon; objectives of the new penology. *First Semester, 1953-1954*

SOC. 308. ANTHROPOLOGY**THREE CREDIT HOURS**

An introductory course in cultural and physical anthropology; the social, economic, political, religious, and artistic life of primitive people; the significance of primordial culture in relation to contemporary civilization. *Second Semester, 1952-1953*

SOC. 309. URBAN SOCIOLOGY**THREE CREDIT HOURS**

A course dealing with the origin, development, nature and significance of urban communities; types of cities; structure and functions of the city; characteristics of urban population; major problems of the city, including city planning. *Second Semester, 1952-1953*

SOC. 311. PUBLIC OPINION AND PROPAGANDA**THREE CREDIT HOURS**

This course explains the importance of public opinion and propaganda; historical background; basis of public opinion; newspapers, radio, motion pictures, television, and other media; how instruments and institutions are used; influence on local, national, and international affairs. *First Semester, 1952-1953*

SOC. 313. JUVENILE DELINQUENCY**THREE CREDIT HOURS**

This is a study of the causes, extent, treatment, and prevention of juvenile delinquency. Among the topics considered are: the home, school, church, state, police, and juvenile court; child guidance clinics; bureaus of juvenile research; probation and parole; correctional institutions. *Second Semester, 1952-1953*

SOC. 314. CONTEMPORARY WORLD SOCIAL PROBLEMS. THREE CREDIT HOURS

An analysis of the causes, extent, treatment, and prevention of the major problems resulting from the Great Depression and two World Wars with particular reference to mid-twentieth century social conditions; cold wars and hot peace; totalitarianism; the United States in the atomic age.

*Second Semester, 1952-1953***SOC. 315. INDUSTRIAL SOCIOLOGY****THREE CREDIT HOURS**

An introduction to the sociology of work relations; a study of the interrelations between work and the social environment in which the worker moves; the social adjustments confronting workers over their life span, from preparation for work to and including retirement.

*Second Semester, 1953-1954***SOC. 316. ELEMENTARY STATISTICS****THREE CREDIT HOURS**

Frequency distributions, central tendency, dispersion, percentiles, probability curve and elementary theory of errors, theory of curve fitting and least squares, correlation table and coefficients of correlation.

*First Semester, Each Year***SOC. 401. SOCIAL RESEARCH****THREE CREDIT HOURS**

The problems and methods of research in sociology and in social work. Methods of observation, collection, recording, classifying, evaluating, interpreting, and presenting social data statistically; planning and completing reports. A required course for majors in sociology.

*First Semester, 1952-1953***SOC. 403. HISTORY OF SOCIAL THOUGHT****THREE CREDIT HOURS**

A study of the theories concerning the origin, development, forms, and nature of society; ancient, medieval, modern, and contemporary contributions to sociological theories, laws, customs, social groupings, literature, and philosophy.

*First Semester, 1953-1954****SOC. 404. SOCIAL INSTITUTIONS****THREE CREDIT HOURS**

An analysis of the structure, functions, concepts, and problems of the basic social institutions, such as the family, the church, the state, the school, and economic institutions; an evaluation of their contributions.

*Second Semester, Each Year***SOC. 405. THE SOCIOLOGY OF THE FAMILY****THREE CREDIT HOURS**

The history and problems of the family with special attention to the impact of modern culture; basis of the family in biology, psychology, economics, law, convention, and religion; accommodations and conflicts; desertion, divorce, and bereavement.

First Semester, 1952-1953

SOC. 413. READING AND RESEARCH IN SOCIOLOGY

ONE TO THREE CREDIT HOURS

With the consent of the department head, a student who is prepared by training and experience may register for this reading and research course. The work may be in any sociological field for which the student has an adequate background.

Each Semester, Each Year

SOC. 414. SEMINAR

ONE CREDIT HOUR

This is a required course for sociology majors. *Second Semester, Each Year*

SOC. 418. COMMUNITY ORGANIZATION

THREE CREDIT HOURS

An analysis of the nature and operation of social processes in urban and rural development; the history and functions of agencies designed to guide and enrich community life; methods of using institutions and equipment in the establishment of programs for the general welfare. *Second Semester, 1953-1954*

SOC. 419. CONTEMPORARY SOCIAL THOUGHT

THREE CREDIT HOURS

A systematic study and evaluation of the important schools of contemporary social thought, including the contributions of such schools as the environmental, hereditarist, racial, psychological, cultural, historical, materialistic, and the sociologicist will be analyzed. *Second Semester, 1953-1954*

SOC. 421. GROUP BEHAVIOR

THREE CREDIT HOURS

This course examines representative aspects of group behavior, including gangs, crowds, mobs, publics, classes and masses; collective behavior as illustrated in motion pictures and literature; social movements as stages in institutional disorganization and reorganization. *First Semester, 1953-1954*

*The course bearing an asterisk is conducted in the Carthagen Division, Carthagen, Ohio. Enrollment is limited to members of the Congregation of the Most Precious Blood.

SPEECH (Spe.)

FR. PREISINGER, HEAD

MR. MCGRATH

Valuable experience in all phases of the theatre can be obtained by joining the University Players.

SPE. 100. VOICE AND DICTION

THREE CREDIT HOURS

The speaking voice; training in voice improvement and effective utterance in daily life; the correction of the ordinary speech defects. This course is primarily for Speech Majors. *First Semester, Each Year*

SPE. 101. FUNDAMENTALS OF EFFECTIVE SPEAKING

THREE CREDIT HOURS

The basic principles of speech composition and delivery. Practice in preparing and presenting short, informative, entertaining and convincing talks. Methods

are applicable to social and business conversation, as well as to public speaking.
Each Semester, Each Year

SPE. 201. SPEAKING TECHNIQUES **THREE CREDIT HOURS**

The theory and practice of the application of the fundamentals of speech work in the special problems that the student will face in life. Practice in reading, speaking, and critical survey work throughout. *Second Semester, 1952-1953*

SPE. 202. INTERPRETATIVE READING **THREE CREDIT HOURS**

The reading of poetry and prose for private and professional use to enable the student to develop a deeper intellectual and emotional appreciation of literature. Practice and theory are combined throughout. *First Semester, 1953-1954*

SPE. 203. ACTING I **THREE CREDIT HOURS**

Study and practice in the fundamentals of acting technique, involving the physical, mental and emotional processes by means of the voice, imagination and bodily movements.
Each Semester, Each Year

SPE. 204. DRAMATIC TECHNIQUE **THREE CREDIT HOURS**

A comprehensive course embracing the fundamentals of acting, stage movements, interpretation, and stagecraft. Assigned projects to meet special group interests.
Second Semester, 1953-1954

SPE. 301. SPEECH COMPOSITION **THREE CREDIT HOURS**

The special methods by which speech is made clear, interesting and forceful before various groups of audiences, and on the ordinary occasions that the student is often called on to face in life. The writing and study of written speeches is emphasized.
First Semester, 1952-1953

SPE. 302. ARGUMENTATION AND DEBATE **THREE CREDIT HOURS**

Analysis of the arguments that arise in conversation and group discussion and debate. Practice in finding evidence, brief-making, and presenting oral arguments in actual debating exercises.
On Request

SPE. 303. ADVANCED INTERPRETATIVE READING **THREE CREDIT HOURS**

Prerequisite: Spe. 202. This is a continuation of the fundamental course in this subject. Individual work and reading is stressed much more than in the previous course.
Second Semester, 1952-1953

SPE. 304. ACTING II **THREE CREDIT HOURS**

Prerequisite: Spe. 203. This is a follow-up of the elementary course in acting. Much more individual training is here given.
Second Semester, 1953-1954

SPE. 305. STAGECRAFT AND LIGHTING **THREE CREDIT HOURS**

Prerequisite: Spe. 204. This is a more detailed treatment of the problems met with in the study of elementary dramatic technique. Stage mechanics, scene construction, painting, backstage organization, and the technical problems met with in lighting a play.
Second Semester, 1952-1953

SPE. 306. RADIO FUNDAMENTALS

THREE CREDIT HOURS

This course treats the elementary problems involved in adapting the principles of effective speaking to the radio. Practice is given in announcing, radio drama, etc.

First Semester, 1952-1953

SPE. 401. ADVANCED PUBLIC SPEAKING

THREE CREDIT HOURS

This course takes for granted a modicum of skill and confidence in speech making. Then the advanced principles of personal development, audience psychology, speech composition and delivery are studied. Special types of speaking situations and their requirements are looked into. Constant practice.

Second Semester, 1953-1954

SPE. 402. PLAY DIRECTING

THREE CREDIT HOURS

The fundamentals of play directing: script selection, casting, rehearsal steps, stage business, tempo, etc. Problems ordinarily met with in school dramatics will be discussed.

First Semester, 1953-1954

SPE. 403. HISTORY OF THE THEATRE I

THREE CREDIT HOURS

The history of the non-literary aspects of the theatre, from ancient Greece to the days of Shakespeare. This is a course in appreciation of dramatic art, as well as its history.

First Semester, 1953-1954

SPE. 404. HISTORY OF THE THEATRE II

THREE CREDIT HOURS

A continuation of the preceding, Spe. 403. It traces the course of theatrical art from Shakespeare to the present day. When time allows, the history and appreciation of motion picture art is included.

Second Semester, 1953-1954

SPE. 405. RADIO DRAMATICS

THREE CREDIT HOURS

Prerequisite: Spe. 306. This course continues the fundamentals of radio work, and emphasizes especially play production on the radio and television. Practice in dramatizing radio scripts.

Second Semester, 1953-1954

SPE. 406. THE TEACHING OF SPEECH IN SECONDARY SCHOOLS

THREE CREDIT HOURS

This course treats the problems met with by the beginner in teaching speech work in secondary schools, the conducting of assemblies, of speech contests, and of school play production.

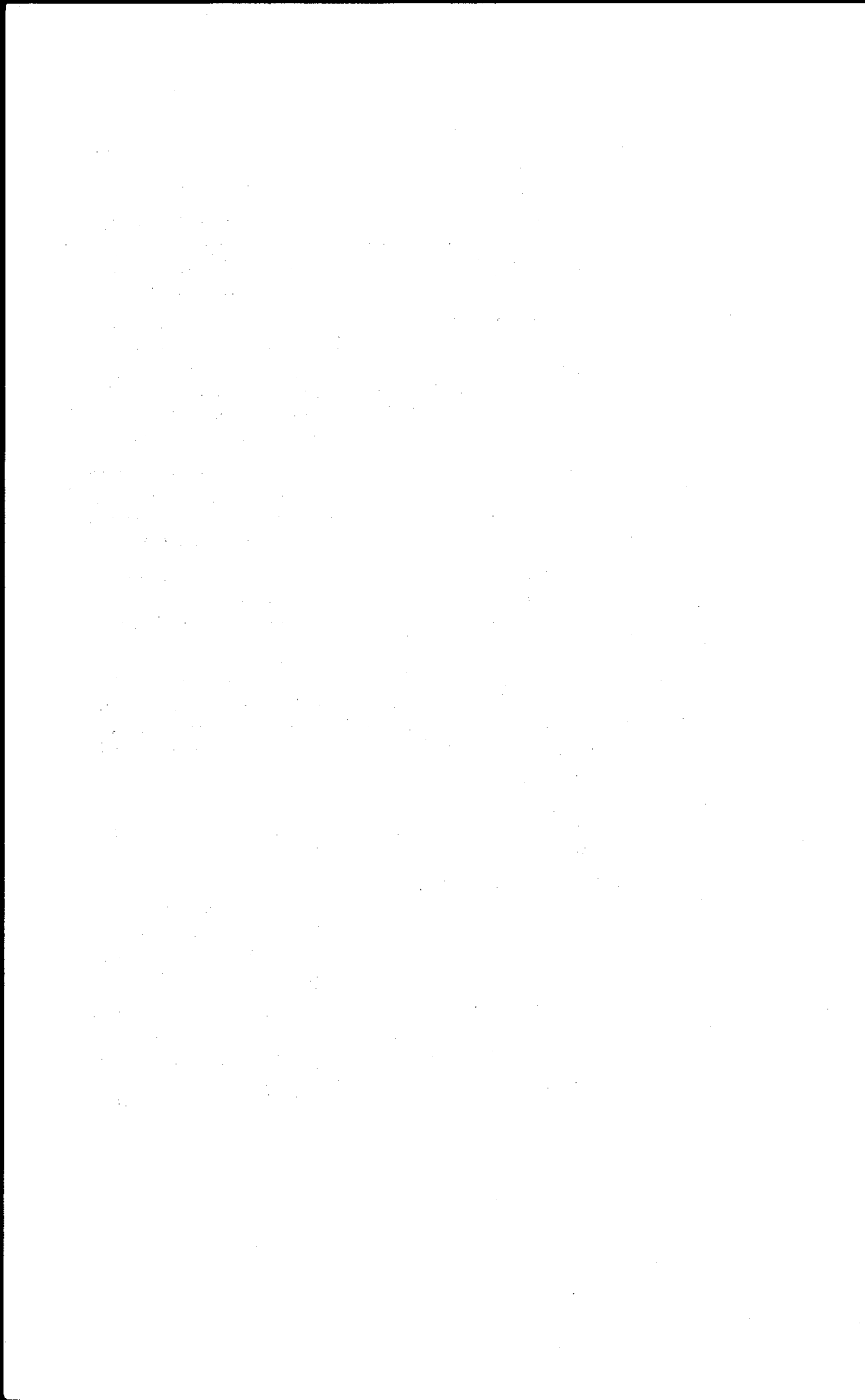
Second Semester, 1953-1954

SPE. 407. SPEECH PATHOLOGY FOR TEACHERS

THREE CREDIT HOURS

This course enumerates the simpler problems confronting a teacher of speech in elementary and high schools, dealing with speech defects. It shows the student how to recognize them, and what to do about them.

Second Semester, 1952-1953



College of Engineering

1. DEPARTMENT OF CHEMICAL ENGINEERING
2. DEPARTMENT OF CIVIL ENGINEERING
3. DEPARTMENT OF ELECTRICAL ENGINEERING
4. DEPARTMENT OF INDUSTRIAL ENGINEERING
5. DEPARTMENT OF MECHANICAL ENGINEERING

GENERAL STATEMENT

THE ENGINEERING CURRICULA in each of the fields of Chemical, Civil, Electrical, Industrial, and Mechanical Engineering are drawn up for a four year period. No effort is spared to acquaint the student thoroughly with fundamental principles and to give him a clear insight into the analysis of engineering problems. While emphasis is laid on fundamental theory, continued attention is paid to the solution of practical problems for the purpose of illustrating scientific principles and pointing out their industrial applications.

The broader responsibilities of the Engineering profession demand that the professional training of an Engineer include at least an acquaintance with the humanities, in order that scientific discoveries and developments by Engineers may result in the real advancement of man. To help the young Engineer achieve his purpose in life, the University offers in addition to the prescribed Engineering subjects a wide selection of courses in the Arts and Sciences and Business Administration.

REQUIREMENTS FOR ADMISSION

FOR ADMISSION to the Freshman Engineering Class, students must present fifteen entrance units in the following prescribed and elective subjects:

PREScribed SUBJECTS	Units
English	3
Algebra	1½
Geometry, Plane and Solid	1½
Physics or Chemistry	1
Social Science	1

Note—Students lacking Solid Geometry may be admitted, but will be required to earn credit in it during the first semester.

ELECTIVE SUBJECTS	Units 7
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Note 1—Credit will not be allowed transfer students for a course in which the lowest passing grade was received.

Note 2—Before being definitely assigned to a Mathematics course, transfer students are to take a qualifying test. Placement in Mathematics is on the basis of this test.

GRADES AND SCHOLARSHIP

GRADES ARE BASED ON daily work, tests, mid-semester and semester examinations. Class periods are of fifty minutes' duration; laboratory periods, from two to three hours.

The official marks with their meanings and quality points are as follows:

A—Excellent	4 quality points*
B—Good	3 quality points*
C—Fair	2 quality points*
D—Passing	1 quality point*

*For each credit hour allowed for the course.

WP—Withdrew, Passing	0 quality point
WF—Withdrew, Failure	0 quality point
F—Failed	0 quality point
I—Incomplete	0 quality point

The credit hours of each course denote the number of class periods and laboratory periods devoted to the course each week during one semester. The grades of A, B, C, and D entitle the student to four, three, two, and one quality points respectively, for each credit hour. The quality point average is found by dividing the total number of quality points obtained by the number of credit hours carried by the student.

D, although passing, indicates work in some respects below standard grade. In many cases it will be necessary to repeat the course in question. The decision rests with the Dean and the department in which the course was taken.

An F indicates failure in a course due to poor scholastic work, or to absence without justification. In such cases required courses must be repeated at the next opportunity.

A grade of I may be given at the discretion of the instructor to any student who, for reasons beyond his control, has not completed some portion of the work of the term, provided that the rest of the work has been of satisfactory grade. The I must be removed within four weeks from the close of the semester, or be changed to an F.

A student desiring to do summer session work should confer with the Dean.

In general, if it appears from the record that a student is not meeting the requirements of the College of Engineering, either scholastically or otherwise, he may be placed on probation or he may be requested not to return to Engineering.

Probationary status is implied when the quality point average for any semester is below 2.0.

A quality point average of less than 1.5 requires permission from the Dean for continuance in Engineering. If permission is granted, the student must repeat all courses for which the semester grade was below C.

DEGREES

THE DEGREES—Bachelor of Chemical, Civil, Electrical, Industrial, and Mechanical Engineering—are conferred at commencement if the following requirements have been fulfilled:

- 1) All prescribed courses outlined in the respective curricula must have been passed with a grade D or better;
- 2) The cumulative quality point average must be at least 2.0;
- 3) The student must have attended the College of Engineering at the University of Dayton during his senior year, and have carried at least thirty credit hours;
- 4) The student must not be obliged to the University financially.

Degrees "With Honors" are awarded to students who have earned a cumulative point average of 3.5 for the first seven semesters.

FRESHMAN CURRICULUM FOR CHEMICAL, CIVIL, ELECTRICAL, INDUSTRIAL, AND MECHANICAL ENGINEERING

		1st Semester		2nd Semester	
		Lect.	Lab.	Lect.	Lab.
Rel. or Phil.	Religion or Philosophy	2	0	2	0
Mil. 101-102	First Basic Military	1½	0	1½	0
Math. 115-116	Mathematical Analysis	5	0	5	0
Chem. 107-108	General Chemistry	3	1	3	1
G.E. 101	Engineering Drawing	0	3	—	—
G.E. 102	Descriptive Geometry	—	—	0	3
Eng. 101	English Composition	3	0	—	—
Phys. 206	Physics	—	—	3	1
Phe. 101-102	Physical Education	0	½	0	½
Phe. 103	Health	½	0	—	—
G.E. 105	Engineering Survey	0	0	—	—
Total Credit Hours		15	4½	14½	5½

DEPARTMENT OF CHEMICAL ENGINEERING (Ch.E.)

BRO. WOHLLEBEN, HEAD

MR. SOFIANOPOULOS

THE COURSE of Chemical Engineering has for its main objective the training of men for technical and executive positions in the chemical industries.

The various phases of general and analytical chemistry are studied coordinately with mathematics, physics and mechanics; these studies constitute a basis for the topics of the last two years which are devoted more specifically to problems of chemical engineering equipment, control, and design. The flow of fluids, thermodynamics, theory of unit operations, and analytical control are studied in the third and fourth years. Cooperatively with the Departments of Civil, Mechanical, and Electrical Engineering, the subjects of heat-power, metallurgy, materials testing, and the principles of electrical engineering are pursued.

CURRICULUM

Freshman Year

(See Page 186)

Sophomore Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Rel. or Phil.		Religion or Philosophy	2	0	2	0
Mil.	201-202	Second Basic Military	1½	0	1½	0
Math.	201-202	Calculus	4	0	4	0
Phys.	207-208	Physics	3	1	3	1
Chem.	205-206	Analytic Chemistry	3	3	3	3
Ger.	101-102	Elementary German or				
Ger.	201-202	Intermediate German	3	0	3	0
Total Credit Hours			16½	4	16½	4

Junior Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
M.E.	301a	Thermodynamics	3	0	—	—
G.E.	202	Statics	3	0	—	—
G.E.	303	Strength of Materials	—	—	3	0
G.E.	305	Materials Testing	—	—	0	1
Chem.	303-304	Physical Chemistry	3	1	3	1
Chem.	305-306	Organic Chemistry	3	3	3	3
Ch.E.	302	Chemical Eng. Calculation	—	—	2	0
M.E.	304a	Heat Power	—	—	3	1
Ger.	307	Chemical German	3	0	—	—
Total Credit Hours			15	4	14	6

Senior Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Ch.E.	401-402	Industrial Chemistry	3	0	3	0
Ch.E.	403	Technical Analysis	0	3	—	—
E.E.	301-302	Electrical Engineering	2	1	2	1
Ch.E.	405-406	Unit Operations	3	0	3	0
Ch.E.	412	Advanced Organic Laboratory	—	—	0	3
Ch.E.	408	Plant Design	—	—	0	1
Ch.E.	410	Seminar	—	—	1	0
G.E.	402	Contracts and Specifications	—	—	2	0
Spe.	101	Fund. of Effective Speaking	3	0	—	—
		Electives	3	0	3	0
Total Credit Hours			14	4	14	5

The choice of Electives is subject to the approval of the Head of the Department and the Dean.

COURSES OF INSTRUCTION

CH.E. 302. CHEMICAL ENGINEERING CALCULATIONS TWO CREDIT HOURS

This course includes stoichiometry, gas and vapor behavior, thermophysics, thermochemistry and the application of these principles to industrial problems. Two class periods a week. Prerequisites: College Physics and Quantitative Chemistry.
Second Semester, Each Year

CH.E. 401-402. INDUSTRIAL CHEMISTRY SIX CREDIT HOURS

The important chemical and allied manufacturing processes are studied. Utilization of waste products and the economic phases of the chemical industry are also stressed. Three class periods a week. Prerequisite: Chem. 305.

Full Year Course, Each Year

CH.E. 403. TECHNICAL ANALYSIS THREE CREDIT HOURS

This course provides training in the analytical methods needed for plant control and treats of examination of solid, liquid, and gaseous fuels, lubricants, ferrous and non-ferrous alloys, saponifiable oils, etc. Three laboratory periods a week. Prerequisites: Chem. 303-304, 305-306.

First Semester, Each Year

CH.E. 405-406. UNIT OPERATIONS SIX CREDIT HOURS

This course, which deals with the unit operations of chemical processes, includes in lectures and discussions the theory and application of fluid flow, heat flow, and methods of separation of mixtures. The solution of problems forms an important part of the course. Three class periods a week. Prerequisites: Chem. 303-304, 305-306, M.E. 301a.

Full Year Course, Each Year

CH.E. 407. PLANT INSPECTION VISITS

Under faculty guidance, the students make occasional plant inspection visits so as to become acquainted with the unit processes and plant equipment in actual operations.

CH.E. 408. PLANT DESIGN ONE CREDIT HOUR

The needed information on equipment and its correlation, initial costs, materials of construction, and maintenances, are presented as a preliminary to the solution of individually assigned problems in plant design. Periodic progress reports and discussions gradually lead to the blue-print stage. One class period a week.

Second Semester, Each Year

CH.E. 410. SEMINAR ONE CREDIT HOUR

Students are assigned a variety of topics which are individually developed and orally presented in weekly seminar meetings. The papers are informally discussed. Students become familiar with the current trends and journal literature. One class period a week for Junior and Senior years.

CH.E. 412. ADVANCED ORGANIC LABORATORY

THREE CREDIT HOURS

In this course, a study is made of the solubilities, functional groups, and derivatives of organic compounds in view of their identification and separation. Experimental problems include organic combustions, hydrogenations, and estimation of functional groups. This work affords opportunities for originality and literature research. Three laboratory periods a week. Prerequisites: Chem. 305-306.

Second Semester, Each Year

DEPARTMENT OF CIVIL ENGINEERING (C.E.)

BRO. SPAHN, ACTING HEAD

MR. BALDINGER, MR. CHAMBERLAIN; MR. ELLIOTT

THE CURRICULUM is designed to give a thorough education in the principles fundamental to the civil engineering profession, so that the student is prepared to pursue to advantage any field of civil engineering practice.

During the first two years, emphasis is placed on those subjects underlying all engineering—English, mathematics, chemistry, physics, drawing, surveying. The third and fourth years are devoted principally to technical subjects relative to hydraulic, sanitary, structural and highway engineering.

Engineering projects, completed or under construction, are visited under the guidance of the instructors. Close association is maintained with the Dayton Section of the American Society of Civil Engineers and the Dayton Chapter of the National Society of Professional Engineers.

CURRICULUM

Freshman Year

(See Page 186)

Sophomore Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Rel. or Phil.		Religion or Philosophy	2	0	2	0
Mil.	201-202	Second Basic Military	1½	0	1½	0
Math.	201-202	Calculus	4	0	4	0
Phys.	207-208	Physics	3	1	3	1
Eng.	222	American Literature	3	0	—	—
Spec.	101	Fund. of Effective Speaking	3	0	—	—
C.E.	201-202	Elementary Surveying	2	1	2	1
G.E.	202	Statics	—	—	3	0
			—	—	—	—
Total Credit Hours.....			18½	2	15½	2

Junior Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
G.E.	301	Dynamics	3	0	—	—
G.E.	303	Strength of Materials	3	0	—	—
G.E.	307	Hydraulics	4	0	—	—
M.E.	301a	Thermodynamics	3	0	—	—
C.E.	301	Route Surveying	3	1	—	—
C.E.	302	Advanced Surveying	—	—	2	1
C.E.	304	Adv. Strength of Materials	—	—	3	0
C.E.	306	Theory of Structure	—	—	5	0
G.E.	305	Materials Testing	—	—	0	1
M.E.	304a	Heat Power	—	—	3	1
		Electives	3	0	3	0
Total Credit Hours			19	1	16	3

Senior Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
C.E.	401-402	Structural Design	2	2	2	2
C.E.	405	Highway Engineering	3	0	—	—
C.E.	407	Reinforced Concrete	4	0	—	—
C.E.	411	Water Supply	3	0	—	—
E.E.	301-302	Electrical Engineering	2	1	2	1
C.E.	406	Indeterminate Structures	—	—	3	0
C.E.	408	Seminar	—	—	1	0
C.E.	412	Sanitary Engineering	—	—	3	0
C.E.	414	Soil Mechanics	—	—	1	1
G.E.	402	Contracts and Specifications	—	—	2	0
		Electives	3	0	3	0
Total Credit Hours			17	3	17	4

The choice of electives is subject to the approval of the Head of the Department and the Dean.

COURSES OF INSTRUCTION

C.E. 201. ELEMENTARY SURVEYING

THREE CREDIT HOURS

Elements of plane surveying, including care and use of instruments, measuring distances and angles, differential levelling. Application to topographic and construction surveys. Two class periods and one field period a week. Text: Rayner, *Elementary Surveying, Vol. 1*. Prerequisite: Math. 115.

First Semester, Each Year

C.E. 202. ELEMENTARY SURVEYING**THREE CREDIT HOURS**

Theory of stadia surveying, plane table, simple horizontal and vertical curves, and U. S. Public Land surveys. Application to maps, plans and profiles. Two class periods and one field period a week. Text: Rayner, *Elementary Surveying, Vol. I*. Prerequisite: C.E. 201. *Second Semester, Each Year*

C.E. 301. ROUTE SURVEYING**FOUR CREDIT HOURS**

Field and office work necessary for the location and layout of railroads and highways; other route surveys; transition curves; earthwork. Three class periods and one field period a week. Text: Pickels and Wiley, *Route Surveying*. Prerequisite: C.E. 202. *First Semester, Each Year*

C.E. 302. ADVANCED SURVEYING**THREE CREDIT HOURS**

Triangulation, plane table and hydrographic surveys; astronomical observations for latitude, longitude, time and azimuth. Two class periods and one field period a week. Text: Rayner, *Advanced Surveying*. Prerequisite: C.E. 202. *Second Semester, Each Year*

C.E. 304. ADVANCED STRENGTH OF MATERIALS**THREE CREDIT HOURS**

The determination of deflection and the solution of statically indeterminate problems by the moment area method; the stress determination in beams of sharp curvature; the study of thick-walled cylinders, unsymmetrical bending, combined stresses; a review of stresses on different planes at a point; a study and comparison of the theories of failure. Three class periods a week. Text: Seely, *Advanced Mechanics of Materials*. Prerequisite: G.E. 303. *Second Semester, Each Year*

C.E. 306. THEORY OF STRUCTURES**FIVE CREDIT HOURS**

The analytical and graphical methods of stress determination in statically determinate structures, together with a study of influence lines. Five class periods a week. Text: Shedd and Vawter, *Theory of Simple Structures*. Prerequisite: G.E. 303. *Second Semester, Each Year*

C.E. 401. STRUCTURAL DESIGN**FOUR CREDIT HOURS**

Structural steel design including a railroad plate girder, a highway bridge and miscellaneous building details. Two class periods and two drawing periods a week. Text: Williams and Harris, *Structural Design in Metals*. Prerequisite: C.E. 306. *First Semester, Each Year*

C.E. 402. STRUCTURAL DESIGN**FOUR CREDIT HOURS**

Reinforced concrete design including arch and rigid frame analysis and the design of typical panels of buildings. Two class periods and two drawing periods a week. Text: Hayden, *The Rigid Frame Bridge*, and class notes. Prerequisites: C.E. 306, 407. *Second Semester, Each Year*

C.E. 405. HIGHWAY ENGINEERING**THREE CREDIT HOURS**

The fundamentals of highway economics and design; construction and main-

tenance; alignments; plans and specifications; highway materials; traffic control. Three class periods a week. Text: Bateman, *Introduction to Highway Engineering*. Prerequisites: C. E. 202, G. E. 303. *First Semester, Each Year*

C.E. 406. INDETERMINATE STRUCTURES THREE CREDIT HOURS
The determination of stresses and deflections of statically indeterminate frames and trusses by the classic and modern methods, including Castigliano's Theorem, least work, moment and shear distribution. Three class periods a week. Text: Williams, *Analysis of Statically Indeterminate Structures*. Prerequisite: C.E. 306. *Second Semester, Each Year*

C.E. 407. REINFORCED CONCRETE FOUR CREDIT HOURS
The first course in the theory and design of reinforced concrete structures; the study of earth pressure; design of retaining walls and footings. Four class periods a week. Text: Sutherland and Reese, *Reinforced Concrete Design*. Prerequisite: G.E. 303. *First Semester, Each Year*

C.E. 408. SEMINAR ONE CREDIT HOUR
Practice in the presentation and discussion of papers dealing with civil engineering subjects; occasional lectures by prominent engineers. Periodically, meetings of the Student Chapter of the American Society of Civil Engineers are substituted for seminar sessions. The Chapter sponsors engineering inspection trips and attendance at the monthly meetings of the Dayton Section of the American Society of Civil Engineers. One class period a week for Junior and Senior years.

C.E. 411. WATER SUPPLY THREE CREDIT HOURS
The theory, development and improvement of water supplies for domestic, manufacturing, and fire service; population prediction; quality and quantity of surface and underground waters; demand and consumption; hydraulics of reservoirs, pipe lines, distribution systems and pumping machinery. Three class periods a week. Text: Steel, *Water Supply and Sewerage*. Prerequisite: G.E. 307. *First Semester, Each Year*

C.E. 412. SANITARY ENGINEERING THREE CREDIT HOURS
Sewage, sewerage and sewage disposal. Design of a small sewerage system for sanitary and storm flow. Three class periods a week. Text: Steel, *Water Supply and Sewerage*. Prerequisite: G. E. 307. *Second Semester, Each Year*

C.E. 414. SOIL MECHANICS TWO CREDIT HOURS
Correlated lectures and experiments on the fundamental properties of soils and soil mechanics; elementary soil tests. One class period and one laboratory period a week. Text: Krynine, *Soil Mechanics*. Prerequisites: G. E. 303, 307. *Second Semester, Each Year*

DEPARTMENT OF ELECTRICAL ENGINEERING (E.E.)

BRO. L. ROSE, HEAD

MR. DUNN, MR. MORGAN, MR. SCHMIDT

The CURRICULUM of Electrical Engineering is planned with the primary objec-

tive of providing a thorough knowledge of the fundamental laws of electricity and the application of these laws in Electrical Engineering.

Courses are arranged to give students of Electrical Engineering an understanding of the basic principles and practices in the fields of Electrical Power and Electrical Communications. Some degree of specialization in these fields is provided according to the abilities and interests of the individual students.

Proper attention is directed to an appreciation of the practical economic factors in the electrical world, and to the cultural and social qualities necessary for a successful career in the Engineering Profession.

CURRICULUM

Freshman Year (See Page 186)

<i>Sophomore Year</i>			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Rel. or Phil.		Religion or Philosophy	2	0	2	0
Mil.	201-202	Second Basic Military	1½	0	1½	0
Math.	201-202	Calculus	4	0	4	0
Phys.	207-208	Physics	3	1	3	1
G.E.	202	Statics	—	—	3	0
E.E.	201	Elements of Electrical Eng.	3	1	—	—
Spe.	101	Fundamentals of Effective Speaking	3	0	—	—
E.E.	206	D. C. Machines	—	—	3	1
Total Credit Hours			16½	2	16½	2

<i>Junior Year</i>			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
G.E.	301	Dynamics	3	0	—	—
G.E.	303	Strength of Materials	3	0	—	—
G.E.	305	Materials Testing	—	—	0	1
E.E.	303-304	Electrical Measurements	2	1	2	1
E.E.	305	A. C. Circuits	4	0	—	—
E.E.	307	D. C. Machines	0	1	—	—
M.E.	301a	Thermodynamics	—	—	3	0
E.E.	308	Communication Engineering I	—	—	3	1
E.E.	312	Engineering Electronics	—	—	3	1
Math.	301	Differential Equations	3	0	—	—
		E. E. Electives	3	0	—	—
		Electives	3	0	3	0
Total Credit Hours			18	2	17	4

Senior Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
E.E.	401-402	A. C. Machinery	3	1	3	1
E.E.	405-406	Electrical Design	2	1	2	1
E.E.	413	Communication Engineering II	3	1	—	—
M.E.	304a	Heat Power	3	1	—	—
G.E.	402	Contracts and Specifications....	—	—	2	0
E.E.	410	Seminar	—	—	1	0
		E. E. Electives	3	0	6	0
		Electives	3	0	3	0
Total Credit Hours			17	4	17	2

E.E. ELECTIVES

		Lect.	Lab.
E.E.	407 Illuminating Engineering	3	0
E.E.	408 Electrical Transients	3	0
E.E.	409 Industrial Electronics	3	0
E.E.	412 Power Transmissions, Distribution	3	0
E.E.	415 Ultra-High Frequencies I	3	0
E.E.	416 Ultra-High Frequencies II	2	1
E.E.	417 Thesis	3	0
E.E.	418 Control of Power Machinery	3	0
E.E.	419 Servomechanisms	3	0
E.E.	420 Symmetrical Components	3	0

The choice of electives is subject to the approval of the Head of the Department and the Dean.

COURSES OF INSTRUCTION**E.E. 201. ELEMENTS OF ELECTRICAL ENGINEERING FOUR CREDIT HOURS**

A general survey course presenting the basic theories of magnetic and electric circuits and their application to engineering. Three class periods and one laboratory period a week. Corequisite: Phys. 207. *First Semester, Each Year*

E.E. 206. DIRECT CURRENT MACHINES FOUR CREDIT HOURS

Theory, construction and characteristics of generators; commutation, armature reaction, parallel operation, speed control, machine testing and efficiency, special machines and automatic controllers. Three class periods and one laboratory period a week. Prerequisite: E.E. 201. *Second Semester, Each Year*

E.E. 301-302. ELECTRICAL ENGINEERING SIX CREDIT HOURS

For Chemical, Civil, and Mechanical Engineering. A series of lectures and laboratory exercises designed to familiarize the student with the elements of circuit

theory, machinery, electronics, and measurements. Two class periods and one laboratory period a week. Prerequisites: Phys. 207, Math. 202.

Full Year Course, Each Year

E.E. 303-304. ELECTRICAL MEASUREMENTS **SIX CREDIT HOURS**

A lecture and laboratory course in the measurement of electrical quantities: resistance, inductance, capacitance, electromotive force, current and power. Study of galvanometers, bridges, and potentiometers. Calibration of instruments. Two class periods and one laboratory period a week. Prerequisite: E.E. 201. Corequisite: E.E. 305.

Full Year Course, Each Year

E.E. 305. ALTERNATING CURRENT CIRCUITS **FOUR CREDIT HOURS**

Vector and complex quantities applied to alternating currents. Single phase circuit analysis; non-sinusoidal waves; balanced and unbalanced polyphase systems. Three class periods and one problem period a week. Prerequisites: E.E. 201, Math. 202.

First Semester, Each Year

E.E. 307. DIRECT CURRENT MACHINERY LABORATORY **ONE CREDIT HOUR**

Laboratory for E.E. 206.

First Semester, Each Year

E.E. 308. COMMUNICATION ENGINEERING I **FOUR CREDIT HOURS**

Coupled circuits; network theorems; resonance; infinite line; reflection; filters. Three class periods and one laboratory period a week. Prerequisite: E.E. 305. Corequisite: E.E. 312.

Second Semester, Each Year

E.E. 312. ENGINEERING ELECTRONICS **FOUR CREDIT HOURS**

Theory, construction and characteristics of vacuum tubes, thyatrons, phototubes, and the technical application of these electronic devices and circuits. Three class periods and one laboratory period a week. Prerequisite: E.E. 305.

Second Semester, Each Year

E.E. 401-402. ALTERNATING CURRENT MACHINERY **EIGHT CREDIT HOURS**

A study of the basic principles of operation and performance of transformers, synchronous machines, polyphase and single phase motors, and the rotary converter. Three class periods and one laboratory period a week. Prerequisite: E.E. 305.

Full Year Course, Each Year

E.E. 405-406. ELECTRICAL DESIGN **SIX CREDIT HOURS**

In this course, the student is required to complete an original design of each of the following types of machinery: a lifting electro-magnet; a direct current generator; an alternator or synchronous motor; an induction motor; a transformer. Two class periods and one design period a week. Corequisite: E.E. 401.

Full Year Course, Each Year

E.E. 407. ELECTRICAL ILLUMINATION **THREE CREDIT HOURS**

The nature of light and the mechanics of vision; illumination, brightness and distribution of light; proper utilization of lamps and luminaries for comfortable and efficient seeing; industrial and commercial lighting designs. Three class periods a week.

First Semester, Each Year

E.E. 408. ELECTRICAL TRANSIENTS**THREE CREDIT HOURS**

Transient response of simple circuits and networks to D. C. and A. C. voltages; oscillations and damping; transients in coupled and resonant circuits; transients in circuits with variable parameters. Three class periods a week. Prerequisite: E.E. 305.

*Second Semester, Each Year***E.E. 409. INDUSTRIAL ELECTRONICS****THREE CREDIT HOURS**

Purpose and function of electronic controls; arc welding; resistance welding; service instruments; rectifiers; recorders. Three class periods a week. Prerequisite: E.E. 312.

*First Semester, Each Year***E.E. 409a. INDUSTRIAL ELECTRONICS****THREE CREDIT HOURS**

Intended to give Chemical and Mechanical engineers, as well as students of physics, the proper background for later actual experience. Three class periods a week. Prerequisite: E.E. 302.

*First Semester, Each Year***E.E. 410. SEMINAR****ONE CREDIT HOUR**

Weekly meetings of students and members of the staff for presentation of papers by the students and lectures by engineers in active practice. One class period a week for Junior and Senior years.

E.E. 411. INSPECTION VISITS

Visits are made to various power and industrial plants in and about Dayton, Ohio. Occasionally, a more extended trip is made to other large industrial centers. Formal reports of such trips are required.

E.E. 412. POWER TRANSMISSION**THREE CREDIT HOURS**

Mechanical features of conductors and supports. Electrical characteristics of lines; system stability; distribution system. Three class periods a week. Prerequisite: E.E. 305.

*Second Semester, Each Year***E.E. 413. COMMUNICATION ENGINEERING II****FOUR CREDIT HOURS**

Impedance transformation; equalizers; communication systems. Three class periods and one laboratory period a week. Prerequisite: E.E. 308.

*First Semester, Each Year***E.E. 415-416. ULTRA-HIGH FREQUENCY THEORY AND PRACTICE****SIX CREDIT HOURS**

Electromagnetic waves; Maxwell's equations; transmission lines, wave guides, cavity resonators; radiation and reflection. Practical microwave generators and systems. Three class periods a week, first semester; two class periods and one laboratory period a week, second semester. Prerequisite: E.E. 308.

*Full Year Course, Each Year***E.E. 417. THESIS****THREE CREDIT HOURS**

Independent project in a field selected by the student and approved by the faculty. Open to Seniors in the second semester as an elective or alternate for E.E. 406.

Second Semester, Each Year

E.E. 418. CONTROL OF POWER MACHINERY **THREE CREDIT HOURS**

A study in the application of power machinery to industry and methods of control in each case. Emphasis is placed on automatic starters, speed control, and electronic applications. Three class periods a week. Corequisite: E.E. 401.

Second Semester, Each Year

E.E. 419. SERVOMECHANISMS **THREE CREDIT HOURS**

A study of the analysis of closed-loop control systems. This includes an investigation into the operating principles of the various types of controllers and follow-up links, transient and steady state stability and the Nyquist stability criterion. Operational calculus is developed and used throughout. Three class periods a week. Prerequisite: Math. 301, E.E. 302, or equivalent.

First Semester, Each Year

E.E. 420. SYMMETRICAL COMPONENTS **THREE CREDIT HOURS**

A course dealing with the theory and applications of Symmetrical Components to unbalanced polyphase circuits. Two class periods and one problem period a week. Prerequisite: E.E. 401. Corequisite: E.E. 412. *Second Semester, Each Year*

DEPARTMENT OF INDUSTRIAL ENGINEERING (I.E.)

THE MAIN OBJECTIVE of the Industrial Engineering curriculum is the education of students to fill executive and administrative positions in technical fields, manufacturing industries and public utilities. Courses are arranged to provide an understanding of the human, technical and financial factors involved in the solution of management problems in an industrial society. Major emphasis is placed upon a thorough understanding of basic scientific principles, applied engineering, economics and accounting and the application of scientific methods to the solution of management problems.

With the proper choice of options and elective subjects, students who graduate from the industrial engineering curriculum should be prepared to serve in many areas of industrial and technical activity including: planning, organizing and controlling production; sales or purchasing; management of manpower; administration of manufacturing plants; financial control; technical supervision or engineering administration.

The basic scientific, engineering and management courses will be the same for all industrial engineering students. However, through the use of options the student is permitted to select an area of technical specialization from the fields of civil, electrical or mechanical engineering and a management option to prepare him for general administration or marketing. Students must select the technical field at the beginning of their sophomore year. The student may reserve until the beginning of the senior year the selection of the management option. By providing for both technical and management specialization, the program presents a wide variety of educational situations to prepare students for many different positions in industrial and technical organizations.

CURRICULUM

PROGRAM I

*Specialization in the Field of Civil Engineering**Freshman Year*

(See Page 186)

Sophomore Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Rel. or Phil.		Religion or Philosophy.....	2	0	2	0
Mil.	201-202	Second Basic Military.....	1½	0	1½	0
Phys.	207-208	Physics	3	1	3	1
Math.	201-202	Calculus	4	0	4	0
Spe.	101	Fundamentals of Effec. Speak. 3	0	—	—	—
Eco.	201-202	Principles of Economics I-II..	3	0	3	0
G.E.	202	Statics	—	—	3	0
C.E.	201-202	Elementary Surveying	2	1	2	1
Total Credit Hours.....			18½	2	18½	2

Junior Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Acct.	203	Survey of Accounting.....	3	0	—	—
Acct.	310	Cost Accounting Analysis	—	—	3	0
Eng.	222	American Literature	3	0	—	—
G.E.	305	Materials Testing	—	—	0	1
G.E.	303	Strength of Materials	3	0	—	—
G.E.	301	Dynamics	3	0	—	—
Psych.	201	Introductory Psychology	—	—	3	0
Bus.	316	Industrial Management	—	—	3	0
G.E.	307	Hydraulics	4	0	—	—
C.E.	306	Theory of Structures	—	—	5	0
		Electives	3	0	3	0
Total Credit Hours			19	0	17	1

Senior Year

MARKETING OPTION

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Bus.	317	Labor Management	3	0	—	—
Math.	331	Statistics for Engineers	3	0	—	—

Math.	332	Industrial and Engineering Application of Statistics	—	—	3	0
C.E.	407	Reinforced Concrete	4	0	—	—
C.E.	414	Soil Mechanics	—	—	1	1
G.E.	402	Contracts and Specifications..	—	—	2	0
		Electives	3	0	3	0
I.E.		Seminar	1	0	—	—
Bus.	305	Principles of Marketing	3	0	—	—
Bus.	301	Corporation Finance	—	—	3	0
Bus.	310	Salesmanship	3	0	—	—
Bus.	311	Sales Management	—	—	3	0
Bus.	414	Industrial Purchasing				
		or				
Bus.	306	Advanced Marketing	—	—	3	0
		Total Credit Hours	20	0	18	1

		ADMINISTRATIVE OPTION		1st		2nd	
				Semester		Semester	
				Lect.	Lab.	Lect.	Lab.
Bus.	317	Labor Management	3	0	—	—	
Math.	331	Statistics for Engineers	3	0	—	—	
Math.	332	Industrial & Engineering Applications of Statistics	—	—	3	0	
C.E.	407	Reinforced Concrete	4	0	—	—	
C.E.	414	Soil Mechanics	—	—	1	1	
G.E.	402	Contracts & Specifications	—	—	2	0	
		Electives	3	0	3	0	
I.E.		Seminar	1	0	—	—	
Bus.	301	Corporation Finance	3	0	—	—	
Bus.	421	Theory of Organization	3	0	—	—	
Bus.	305	Principles of Marketing	—	—	3	0	
		Administrative Elective	—	—	3	0	
G.E.		Technical & Managerial Reports	—	—	3	0	
		Total Credit Hours	20	0	18	1	

PROGRAM II

*Specialization in the Field of Mechanical Engineering**Freshman Year*

(See Page 186)

Sophomore Year

		1st		2nd	
		Semester		Semester	
		Lect.	Lab.	Lect.	Lab.
Rel. or Phil.	Religion or Philosophy.....	2	0	2	0

Mil.	201-202	Second Basic Military.....	1½	0	1½	0
Math.	201-202	Calculus	4	0	4	0
Phys.	207-208	Physics	3	1	3	1
Spe.	101	Fundamentals of Effec. Speak. 3	0	—	—	—
Eng.	222	American Literature	—	—	3	0
G.E.	202	Statics	—	—	3	0
Eco.	201-202	Principles of Economics I-II..	3	0	3	0
M.E.	205a	Machine Shop Practice	2	1	—	—
			—	—	—	—
		Total Credit Hours	18½	2	19½	1

Junior Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
G.E.	301	Dynamics	3	0	—	—
G.E.	303	Strength of Materials	3	0	—	—
G.E.	305	Materials Testing	—	—	0	1
Acct.	203	Survey of Accounting	3	0	—	—
M.E.	301a	Thermodynamics	3	0	—	—
Math.	331	Statistics for Engineers	3	0	—	—
Psych.	201	Introductory Psychology	—	—	3	0
Bus.	316	Industrial Management	—	—	3	0
Acct.	310	Cost Accounting Analysis	—	—	3	0
M.E.	309	Mechanics of Machinery	—	—	1	1
M.E.	306	Mechanical Engineering Lab...	—	—	0	2
		Electives	3	0	3	0
			—	—	—	—
		Total Credit Hours	18	0	13	4

Senior Year

MARKETING OPTION

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Bus.	317	Labor Management	3	0	—	—
M.E.	303	Metallurgy	2	1	—	—
M.E.	304a	Heat Power	3	1	—	—
G.E.	402	Contracts & Specifications	—	—	2	0
Math.	332	Industrial & Engineering Applications of Statistics	—	—	3	0
M.E.	308	Fluid Mechanics	—	—	3	0
		Electives	3	0	3	0
I.E.		Seminar	1	0	—	—
Bus.	301	Corporation Finance	—	—	3	0
Bus.	305	Principles of Marketing	3	0	—	—

Bus.	310	Salesmanship	3	0	—	—
Bus.	311	Sales Management	—	—	3	0
Bus.	414	Industrial Purchasing				
		or				
Bus.	306	Advanced Marketing	—	—	3	0
		Total Credit Hours	18	2	20	0

ADMINISTRATIVE OPTION

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Bus.	317	Labor Management	3	0	—	—
M.E.	303	Metallurgy	2	1	—	—
M.E.	304a	Heat Power	3	1	—	—
G.E.	402	Contracts & Specifications	—	—	2	0
Math.	332	Industrial & Engineering Applications of Statistics	—	—	3	0
M.E.	308	Fluid Mechanics	—	—	3	0
		Electives	3	0	3	0
I.E.		Seminar	1	0	—	—
Bus.	301	Corporation Finance	3	0	—	—
Bus.	421	Theory of Organization	—	—	3	0
Bus.	305	Principles of Marketing	3	0	—	—
Bus.		Administrative Elective	—	—	3	0
G.E.		Technical & Managerial Reports	—	—	3	0
			—	—	—	—
		Total Credit Hours	18	2	20	0

COURSES OF INSTRUCTION

THE INDUSTRIAL ENGINEERING programs are made up of courses listed under various departments, as indicated in the curriculum outlined above. For description of these courses, consult the respective departments.

DEPARTMENT OF MECHANICAL ENGINEERING (M.E.)

BRO. PARR, HEAD

MR. ALBERTS, MR. NIELSEN, MR. SAVITSKI, MR. SCOTT, BRO. WEBER,
MR. WESTBROCK, MR. WRIGHT

THE CURRICULUM of Mechanical Engineering is designed to give the student knowledge of the fundamental principles of science and the application of these principles to pertinent problems.

Basic studies in mathematics and the sciences are pursued in the first two

years and departmental subjects are taken up in the last two years. The course of studies comprises lectures, recitations and discussions, laboratory practice, and inspection visits.

Every attempt is made to impress the student with the responsibilities that rest upon the Mechanical Engineer in the active field, whether engaged as designer, builder, operator, organizer, manager or executive.

CURRICULUM

Freshman Year

(See Page 186)

Sophomore Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
Rel. or Phil.		Religion or Philosophy	2	0	2	0
Mil.	201-202	Second Basic Military	1½	0	1½	0
Math.	201-202	Calculus	4	0	4	0
Phys.	207-208	Physics	3	1	3	1
C.E.	201	Surveying	2	1	—	—
Eng.	222	American Literature	—	—	3	0
Spe.	101	Fundamentals of Effec. Speak. 3	0	—	—	—
G.E.	202	Statics	—	—	3	0
M.E.	205-206	Production Methods and Shop Practices	2	1	2	1
Total Credit Hours			17½	3	18½	2

Junior Year

			1st Semester		2nd Semester	
			Lect.	Lab.	Lect.	Lab.
G.E.	301	Dynamics	3	0	—	—
G.E.	303	Strength of Materials	3	0	—	—
G.E.	305	Materials Testing	0	1	—	—
E.E.	301-302	Electrical Engineering	2	1	2	1
M.E.	301-302	Thermodynamics	3	0	3	0
M.E.	304	Heat Power	—	—	3	2
M.E.	305	M. E. Laboratory	0	2	—	—
M.E.	308	Fluid Mechanics	—	—	3	0
M.E.	309-310	Mechanics of Machinery	1	1	2	0
M.E.	303	Metallurgy	2	1	—	—
C.E.	304	Adv. Strength of Materials....	—	—	3	0
Total Credit Hours			14	6	16	3

			<i>Senior Year</i>		1st		2nd	
					Semester		Semester	
					Lect.	Lab.	Lect.	Lab.
G.E.	402	Contracts and Specifications..	—	—	—	—	2	0
M.E.	401-402	Internal Combustion Engines..	3	0	3	0	3	0
M.E.	403	Heating, Air Conditioning	3	2	—	—	—	—
M.E.	404	Refrigeration	—	—	—	—	3	0
M.E.	406	M. E. Laboratory	—	—	—	—	0	2
M.E.	407-408	Machine Design	2	1	2	1	2	1
M.E.	409	Heat Transmission	3	0	—	—	—	—
M.E.	414	Seminar	—	—	—	—	1	0
		Electives	6	0	6	0	6	0
Total Credit Hours					17	3	17	3

Electives in M. E. Department

			1st		2nd	
			Semester		Semester	
			Lect.	Lab.	Lect.	Lab.
M.E.	303	Metallurgy (elective for non-Mechanicals)	—	—	2	1
M.E.	416	Mechanical Vibrations	—	—	2	1
M.E.	411	Pumps and Compressors.....	3	0	—	—
M.E.	413	Non-Ferrous Metallurgy	3	0	—	—

COURSES OF INSTRUCTION

M.E. 205-206. PRODUCTION METHODS AND SHOP PRACTICES

SIX CREDIT HOURS

Lectures on production control, inspection, cost estimates, gear and cam production methods, interchangeable and progressive manufacturing methods, automatic machines and their economical employment; design, production, maintenance, and use of jigs, fixtures, tools and gauges; mass production and assembly systems; current practice in tolerance, finish, and class of fit. Exercises in the use of hand and machine tools and measuring instruments. Also, exercises requiring the use of standard tool-room equipment, and practice based on foregoing principles. Two class periods and one laboratory period a week. Prerequisites: Math. 115, Phys. 206, G.E. 101.

Full Year Course, Each Year

M.E. 205a. MACHINE SHOP PRACTICE (FOR NON-MECHANICALS)

THREE CREDIT HOURS

Lectures on use of tools and gauges; current practice in tolerance, finish and class of fit. Exercises in the use of hand and machine tools and measuring instruments. Also, exercises requiring the use of standard tool-room equipment, and practice based on foregoing principles. Two class periods and one laboratory period a week. Prerequisites: Math. 115, Phys. 206, G.E. 101.

First Semester, Each Year

M.E. 301-302. THERMODYNAMICS**SIX CREDIT HOURS**

The general laws of thermodynamics as applied to gases, saturated and superheated vapors; entropy; isothermal and adiabatic processes; compressors and steam engines; internal combustion engine cycles; flow of fluids. Three class periods a week. Prerequisite: Math. 202; Corequisite: Phys. 208.

Full Year Course, Each Year

M.E. 301a. THERMODYNAMICS (FOR NON-MECHANICALS)**THREE CREDIT HOURS**

The general laws of thermodynamics; entropy; isothermal and adiabatic processes; the cycles; flow of fluids. Three class periods a week. Prerequisite: Math. 202; Corequisite: Phys. 208.

Each Semester, Each Year

M.E. 303. METALLURGY**THREE CREDIT HOURS**

Structure and properties of metals and alloys; iron and steel; critical points; equilibrium diagrams of iron-carbon alloys; heat treatment of steel; metallographic analysis of metals; non-ferrous alloys. Two class periods and one laboratory period a week. Prerequisite: Chem. 108; Corequisite: G.E. 305.

First Semester, Each Year

M.E. 304. HEAT POWER**FIVE CREDIT HOURS**

The steam power plant; fuels and stokers, boilers and auxiliaries, condensers; chimney and draft equipment; steam engines and turbines; pumps; air compressors; water supply and purification; coal and ash handling machinery. Three class periods and two laboratory periods a week. Prerequisite: M.E. 301.

Second Semester, Each Year

M.E. 304a. HEAT POWER (FOR NON-MECHANICALS)**FOUR CREDIT HOURS**

Course content same as M.E. 304. Three class periods and one laboratory period a week. Prerequisite: M.E. 301a.

Each Semester, Each Year

M.E. 305. MECHANICAL ENGINEERING LABORATORY**TWO CREDIT HOURS**

Measurement of pressure, temperature, volume; planimeters; indicators; dynamometers; calorific determination of fuels; flue gas analysis; air flow; lubricants. Detailed reports of experiments performed. Two laboratory periods a week. Prerequisite: Phys. 208.

First Semester, Each Year

M.E. 308. FLUID MECHANICS**THREE CREDIT HOURS**

Laws and theory relative to compressible and incompressible fluids; momentum relations for steady flow; resistance of immersed bodies; dynamic lift and propulsion; lubrication; pumps; turbines; fluid couplings; fluid power and control systems. Three class periods a week. Prerequisite: M.E. 301.

Second Semester, Each Year

M.E. 309. MECHANICS OF MACHINERY**TWO CREDIT HOURS**

Kinematics of machinery; linkwork; cams; gearing—spur, bevel, screw, etc.; flexible connectors; intermittent motion mechanisms; trains of mechanisms. One

class period and one drawing period a week. Prerequisites: Math. 202, Phys. 206, G.E. 102. *First Semester, Each Year*

M.E. 310. MECHANICS OF MACHINERY **TWO CREDIT HOURS**
(Continuation of M.E. 309.) Criterion of constraint, velocity, images, velocity polygons, acceleration, Coriolis' Law, inertia forces of machine parts, and balancing of engines. Two class periods a week. Prerequisite: M.E. 309. *Second Semester, Each Year*

M.E. 401-402. INTERNAL COMBUSTION ENGINES **SIX CREDIT HOURS**
A critical study of the Otto and Diesel cycles is made involving researches in fuels, combustion, detonation, knock testing, engine performance, exhaust gases, and engine vibration. Three class periods a week. Prerequisites: M.E. 301, 302, 305. *Full Year Course, Each Year*

M.E. 403. HEATING AND AIR CONDITIONING **FIVE CREDIT HOURS**
The mechanical problem of heating and air conditioning a room is studied from the thermodynamic viewpoint. The effect of conditioned air on occupants receives attention. Three class periods and two laboratory periods a week. Prerequisites: M.E. 301, 302, 305; Corequisite: M.E. 409. *First Semester, Each Year*

M.E. 404. REFRIGERATION **THREE CREDIT HOURS**
Thermodynamics of mechanical refrigeration; refrigerating systems; refrigerants; heat transfer; application of refrigeration. Three class periods a week. Prerequisites: M.E. 301, 302, 305. *Second Semester, Each Year*

M.E. 406. MECHANICAL ENGINEERING LABORATORY **TWO CREDIT HOURS**
Complete tests are made on a power plant, steam engine, refrigerator, and an internal combustion engine. Two laboratory periods a week. Prerequisites: M.E. 304, 305, 401. *Second Semester, Each Year*

M.E. 407-408. MACHINE DESIGN **SIX CREDIT HOURS**
Stress analysis; columns; screw fastenings; rivets; keys and couplings; connectors and drives; gearing; bearings; springs; brakes, friction clutches and friction drives; cams; welding; design problems. Two class periods and one design period a week. Prerequisites: C.E. 304, G.E. 301, 303, M.E. 309. *Full Year Course, Each Year*

M.E. 409. HEAT TRANSMISSION **THREE CREDIT HOURS**
Consideration is given to methods of heat transfer, laws of radiation, conduction and convection, dimensional analysis, film theory. Heat transfer from fluid to fluid through a separating wall is correlated with the flow characteristics of the fluids. Special attention is given to test methods, to prediction of heat exchanger performance, and to the economic factors affecting design. Three class periods a week. Prerequisite: M.E. 301; Corequisite: M.E. 308. *First Semester, Each Year*

M.E. 411. PUMPS AND COMPRESSORS **THREE CREDIT HOURS**
Special attention is given to the design of pumps for viscous and corrosive fluids.

Reciprocating and rotary compressors are studied. Three class periods a week.
Prerequisite: M.E. 308. *First Semester, Each Year*

M.E. 413. NON-FERROUS METALLURGY THREE CREDIT HOURS
Structure and properties of non-ferrous alloys. Working, casting, heat treatment and use of alloys of aluminum, magnesium, copper, nickel, tin, zinc and miscellaneous metals. Two class periods and one laboratory period a week. Prerequisite: M.E. 303. *First Semester, Each Year*

M.E. 414. SEMINAR ONE CREDIT HOUR
Required of all junior and senior Mechanical Engineering students. One class period a week for Junior and Senior years.

M.E. 415. INSPECTION VISITS
Junior and senior inspection trips are arranged for the second semester. Visits are made to selected manufacturing establishments and engineering projects. Plant layouts and organization are studied.

M.E. 416. MECHANICAL VIBRATIONS THREE CREDIT HOURS
Vibrations without damping; damped vibrations; vibration of systems with several degrees of freedom; vibration isolation and absorption; theory of balancing; the Mobility Method; mechanical and electrical models of vibration systems. Two class periods and one laboratory period a week. Prerequisite: M.E. 310. *Second Semester, Each Year*

GENERAL ENGINEERING (G.E.)

BRO. SPAHN

MR. BALDINGER, MR. CHAMBERLAIN, MR. WEHMANEN, MR. ELLIOTT

COURSES OF INSTRUCTION

G.E. 101. ENGINEERING DRAWING THREE CREDIT HOURS
Practice in lettering and the use of instruments; orthographic projection, working drawings, auxiliary views, sections and conventions, dimensioning, drawings; pictorial drawings, isometric and oblique; technical sketching. Two lecture periods and four laboratory hours a week. *First Semester, Each Year*

G.E. 102. DESCRIPTIVE GEOMETRY THREE CREDIT HOURS
Auxiliary and oblique views; line and plane problems; surfaces, intersections and developments, warped surfaces, applications to drawing and engineering problems. Two lecture periods and four laboratory hours a week. Prerequisite: G.E. 101. *Second Semester, Each Year*

G.E. 105. ENGINEERING SURVEY NO CREDIT
An orientation course designed to give the freshman students a general view of the engineering profession. It discusses engineering education, methods of study,

and engineering curricula; historical background, achievements, and social and economic effects of engineering. One class period a week.

First Semester, Each Year

G.E. 202. STATICS

THREE CREDIT HOURS

A study of the fundamental principles of mechanics; force systems, resultants and equilibrium statics, friction, center of gravity, moments of inertia of areas. Three class periods a week. Prerequisites: Math. 201, Phys. 206.

Each Semester, Each Year

G.E. 301. DYNAMICS

THREE CREDIT HOURS

Kinematics of particles and rigid bodies, moments of inertia of masses, kinetics of rigid bodies, work, energy and power, impulse and momentum. Three class periods a week. Prerequisites: G.E. 202, Math. 202. *First Semester, Each Year*

G.E. 303. STRENGTH OF MATERIALS

THREE CREDIT HOURS

The study of stresses and strains in tension, compression, shear and torsion; riveted and welded joints; shear and moment diagrams; stresses and deflections of beams and columns; stresses at a point, including Mohr's circle. Three class periods a week. Text: Timoshenko and MacCullough, *Elements of Strength of Materials*. Prerequisites: G.E. 202, Math. 202. *Each Semester, Each Year*

G.E. 305. MATERIALS TESTING

ONE CREDIT HOUR

A laboratory course to acquaint the student with A. S. T. M. standards and procedures in the physical tests of steel, timber and concrete. Mechanical tests include those of tension, compression, flexure, torsion, hardness and impact. One laboratory period a week. Corequisite: G.E. 303. *Each Semester, Each Year*

G.E. 307. HYDRAULICS

FOUR CREDIT HOURS

A basic course in the principles of hydrostatics and hydrodynamics: pressures exerted by water at rest or in motion; measurement of fluid flow; fundamentals of dimensional analysis and dynamic similarity; flow of water in pipes and open channels, with application of basic principles to the flow of other fluids; hydraulic turbines and centrifugal pumps. Four class periods a week. Text: King, Wisler, Woodburn, *Hydraulics*. Prerequisite: G.E. 202.

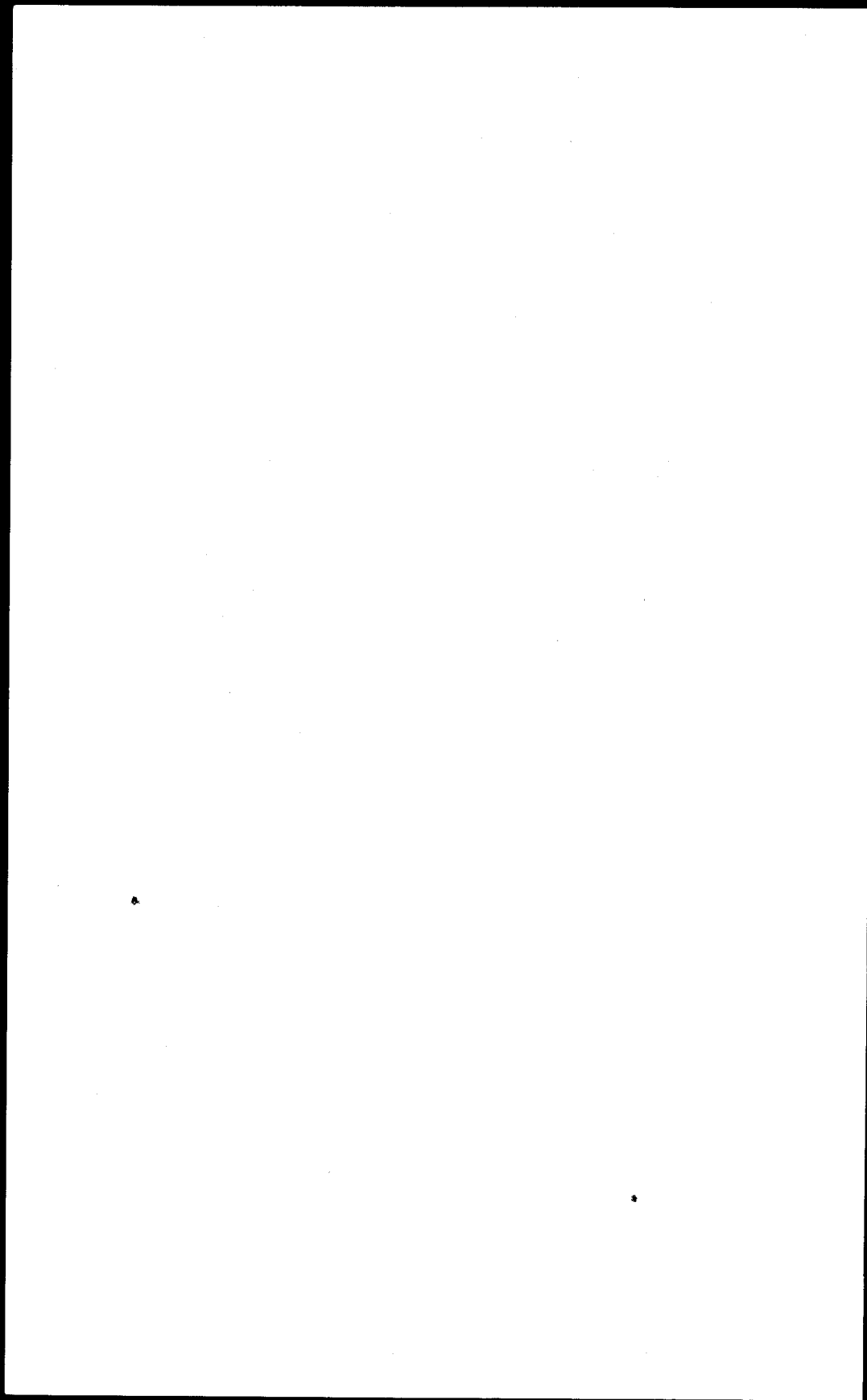
First Semester, Each Year

G.E. 402. CONTRACTS AND SPECIFICATIONS

TWO CREDIT HOURS

Lectures and assigned readings covering the essential elements of contracts, specifications and professional ethics; legal relations, rights and responsibility of the engineer. Two class periods a week.

Second Semester, Each Year



Technical Institutes

THE TECHNICAL INSTITUTE PROGRAM

(Technical Institute Credit)

OBJECTIVES

TO PROVIDE a well planned program of higher education for the student wanting to secure an engineering type of education and not having the time, finances or interest in securing an engineering degree.

To provide a well planned education of an engineering type for the student more interested in the application of engineering knowledge than in research and original design which is emphasized in degree programs.

To provide an opportunity for persons employed in shops, business houses and service industries to secure the education necessary for advancement.

To provide a planned program of higher education for those who find it necessary to earn while they learn.

To provide a complete program of studies for the student who does not plan to devote four full years to his education on a college level.

To provide a program of study in science and mathematics for those whose job requires such knowledge.

DEFINITION

THE FOLLOWING definition of technical institute curricula by the Engineers' Council for Professional Development has been the basis for developing and operating the Technical Institute Program of the University of Dayton:

Curricula to be considered are technological in nature and lie in the post-high school area. They differ in content and purpose from those of the vocational school on one hand and from those of the engineering college on the other. Curricula in this field are offered by a variety of institutions, and cover a considerable range as to duration and content of subject matter, but have in common the following purposes and characteristics:

- (1) The purpose is to prepare individuals for various technical positions or lines of activity encompassed within the field of engineering, but the scope of the programs is more limited than that required to prepare a person for a career as a professional engineer.*
- (2) Curricula are essentially technological in nature, based upon principles of science, require the use of mathematics beyond high school, and emphasize rational processes rather than rules of practice.*
- (3) Programs of instruction are briefer, and usually more completely technical in content than professional curricula, though they are concerned with the same general fields of industry and engineering. They do not lead to the baccalaureate degree in engineering. Such designations as Engineering Aide, Technical Aide, Associate in Engineering, and Engi-*

neering Associate are appropriate designations to be conferred upon the graduates of programs of technical institute type.

- (4) *Training for artisanship is not included within the scope of education of technical institute type.*

ADMISSION

THE COURSES in the technical institute are open to men and women who have completed high school or who have the equivalent in other forms of education or experience.

GUIDANCE AND COUNSELING

THE FACILITIES of the Guidance Center are available for technical institute students. Staff members experienced in this type of program will be on hand before and during registration. Prospective students are encouraged to visit the campus or telephone for information regarding any of the programs offered.

MAXIMUM HOURS OF STUDY

THE SCHEDULE of the technical institute classes has been arranged for the convenience of workers who are employed full-time or part-time. For those employed full-time, a maximum load of nine hours of technical institute credit has been established. To carry more than nine hours, approval must be secured from the Head of the Technical Institutes. By carrying no more than nine hours a semester the student may complete his work in eight semesters or four years.

A parallel schedule has been prepared for those who work twenty hours or less per week. These students may complete their work in four semesters or two years of study.

BASIC TECHNOLOGY

FOR STUDENTS desiring to secure a basic background of technological studies, the following schedule has been developed. In many cases, these courses will serve as background courses for further study in the various sub-professional fields of specialization closely allied with engineering such as mechanical and electrical technology, building construction, machine and tool design, heating and air conditioning, radio, electronics, drafting. For students, therefore, interested in preparing for employment in technical fields similar to those mentioned above but not planning to secure an engineering degree, the following courses are suggested:

Course Title		Approximate Hours per week			
		Units	In Class	In Lab	Preparation
S-1T	Industrial Mathematics I	4	3	3	4—8
S-2T	Industrial Mathematics II	3	3		3—6

In-1T	Industrial Organizations and Their Management	3	3		3—6
G-11T	Applied Psychology	3	3		3—6
In-2T	Industrial Production	3	3		3—6
G-1T	Effective Speaking & Writing	3	3		3—6
Dn-2T	Shop Drawing	3	2	4	1
G-2T	Conference & Public Speaking	1½	1½		2
G-3T	Report Writing	1½	1½		2—3
S-21T	Introduction to Industrial Chemistry	3	2	4	2—4
S-11T	Mechanics	3	2	4	2—4
S-12T	Heat, Light, Sound	3	2	4	2—4
S-13T	Electricity	3	2	4	2—4
G-12T	Economics in Industry	3	3		3—6
G-21T	American Political Ideas and Practices	3	3		3—6

INDUSTRIAL TECHNOLOGY

OBJECTIVES

THE CURRICULUM in Industrial Technology has been designed primarily to prepare students for supervisory and managerial positions in the manufacturing industries. However, the broad background in technical scientific subjects should enable the student to qualify for a wide variety of technological positions in many fields of engineering, particularly industrial engineering. At the same time, intensive study of management subjects should enable him to qualify for a wide variety of positions not directly related to the production of goods, such as technical selling, personnel administration, transportation, distribution, and ownership of his own business.

ORGANIZATION

THE STUDENT will devote approximately 35% of his time to studies in applied basic science, 20% to non-technical studies and the remaining 45% to special studies to prepare for his particular field of employment. For Industrial Technology, these special subjects include: Organization, Supervision, Industrial Materials and Processes, Motion and Time Study, Safety, Industrial Relations, Cost Control, Production Control, Job Evaluation, Wage Determination, and other subjects. For description of courses see page 213.

CURRICULUM I

(Four-year program for students employed more than 20 hours per week)

FIRST YEAR (1st Semester)	Units	Approximate Hours per week		
		In Class	In Lab	Preparation
S-1T Industrial Mathematics I	4	3	3	4—8

In-1T Industrial Organizations and Their Management	3	3		3—6
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(2nd Semester)

G-11T Applied Psychology	3	3		3—6
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S-2T Industrial Mathematics II	3	3		3—6
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In-3T Industrial Materials and Methods of Manufacture	3	2	4	2
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SECOND YEAR

(1st Semester)

In-2T Industrial Production	3	3		3—6
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Dn-1T Shop Drawing	3	2	4	2
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G-1T Effective Speaking & Writing	3	3		3—6
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(2nd Semester)

S-11T Mechanics	3	2	4	2—4
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G-2T Conference & Public Speaking	1½	1½		2
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G-3T Report Writing	1½	1½		2—3
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THIRD YEAR

(1st Semester)

In-4T Motion and Time Study	3	2	4	2—4
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In-5T Personnel Relations and Labor Legislation	3	3		3—6
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G-21T American Political Ideas and Practices	3	3		3—6
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(2nd Semester)

In-6T Job Evaluation, Merit Rating and Wage Determination	3	3		3—6
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S-21T Industrial Chemistry	3	2	4	2—4
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In-7T Elements of Cost Control	3	3		3—6
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FOURTH YEAR

(1st Semester)

G-22T Economics in Industry	3	3		3—6
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S-12T Heat, Light, Sound	3	2	4	2—4
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(2nd Semester)

In-8T Production Planning and Control	3	3		3—6
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S-13T Electricity	3	2	4	2—4
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Electives to make 64 credit units.

CURRICULUM II

(Two-year program for students employed twenty hours or less per week)

FIRST YEAR

(1st Semester)

S-1T	Industrial Mathematics I	4	3	3	4—8
In-1T	Industrial Organizations and Their Management	3	3		3—6
G-1T	Effective Speaking & Writing	3	3		3—6
Dn-1T	Shop Drawing	3	2	4	1—2
In-2T	Industrial Production	3	3		3—6

(2nd Semester)

S-2T	Industrial Mathematics II	3	3		3—6
G-11T	Applied Psychology	3	3		3—6
G-2T	Conference & Public Speaking	1½	1½		2—3
G-3T	Report Writing	1½	1½		2—3
S-11T	Mechanics	3	2	4	2—4
In-3T	Materials and Methods of Manufacture	3	2	4	2

SECOND YEAR

(1st Semester)

In-5T	Personnel Relations and Labor Legislation	3	3		3—6
In-4T	Motion and Time Study	3	2	4	2—4
G-22T	Economics in Industry	3	3		3—6
S-12T	Heat, Light and Sound	3	2	4	2—4
G-21T	American Political Ideas and Practices	3	3		3—6

(2nd Semester)

In-6T	Job Evaluation, Merit Rating and Wage Determination	3	3		3—6
S-31T	Introduction to Industrial Chemistry	3	2	4	2—4
In-8T	Production Planning and Control	3	3		3—6
In-7T	Elements of Cost Control	3	3		3—6
S-13T	Electricity	3	2	4	2—4
Electives to make a total of 64 credit units.					

COURSES OF INSTRUCTION

S-1T. INDUSTRIAL MATHEMATICS I

A review of arithmetic, selected topics from algebra and trigonometry with particular emphasis on industrial problems.

S-2T. INDUSTRIAL MATHEMATICS II (ALGEBRA AND TRIGONOMETRY)

Selected topics from algebra and trigonometry with particular emphasis on industrial problems.

S-11T. MECHANICS

A laboratory and lecture course dealing with forces and their effects. Topics include work, motion, simple machines, elasticity and strength of materials. Laboratory work parallels classroom work.

S-12T. HEAT, LIGHT AND SOUND

The elementary principles of heat, light and sound with particular emphasis on technical applications.

S-13T. ELECTRICITY

The basic principles of electricity and their application in industry.

S-21T. INTRODUCTION TO INDUSTRIAL CHEMISTRY

General principles of chemistry, including elements and their simpler compounds. Special emphasis on topics of importance in industrial activities.

Dn-2T. SHOP DRAWING I

This is an introduction to technical drawing and major emphasis is placed upon comprehension of industrial drawings. The use of instruments, lettering, orthographic projection, auxiliary views, sections, and conventions. Dimensioning and technical sketching are some of the topics covered.

G-1T. EFFECTIVE SPEAKING AND WRITING

A course designed to develop basic communication skills, while major emphasis is upon grammar. The purpose is to enable the student to convey his ideas more effectively. It is preparatory to advanced courses in public and conference speaking and to technical report writing.

G-2T. CONFERENCE AND PUBLIC SPEAKING

A course in theory and practice dealing with the organization of material, presentation, audience reaction for large group speaking or small group conferences.

G-3T. REPORT WRITING

The preparation and presentation of industrial and other technical reports.

G-11T. APPLIED PSYCHOLOGY

An introductory course in psychology dealing with normal behavior and personal adjustments. Specific industrial applications of psychological principles in human relations are covered.

G-21T. AMERICAN POLITICAL IDEAS AND PRACTICES

The fundamental concepts of a democratic society. A study of the Constitution and republican form of Government of the United States emphasizing the privileges and responsibilities of citizenship at local, state and national levels.

G-22T. ECONOMICS IN INDUSTRY

A study of economic institutions, forces and factors with particular emphasis upon their relation to industrial problems.

In-1T. INDUSTRIAL ORGANIZATIONS AND THEIR MANAGEMENT

A basic course in theories of ownership and organization together with methods for developing effective leadership so that men, material and money may be organized for the maximum results with the best possible human relations.

In-2T. INDUSTRIAL PRODUCTION

This course is specifically designed to cover the conversion of production functions of industrial management. This is a survey course but coverage should be complete enough to cover the basic principles underlying scientific production, organization and management. Topics to be covered include: equipment of plants, systems and methods of plant location and layout, industrial safety, motion and time study, production planning and control, and many other phases of the production function. It is a prerequisite to many specialized courses in industrial management.

In-3T. INDUSTRIAL MATERIALS AND METHODS OF MANUFACTURE

A combined discussion, laboratory and field trip course designed to familiarize the student with modern materials used in industry, their chemical and physical properties and methods by which they may be fabricated.

In-4T. MOTION AND TIME STUDY

Principles of work simplification and motion economy. Tools and equipment for the study of motions, development of effective methods, standard data determination, and the human factors involved.

In-5T. PERSONNEL RELATIONS AND LABOR LEGISLATION

The organization and operation of the personnel department, union-management relations and legislation affecting industrial relations.

In-6T. JOB EVALUATION, MERIT RATING AND WAGE DETERMINATION

Determining requirements of jobs, building rate structures, performance ratings, and setting wages and salaries.

In-7T. ELEMENTS OF COST CONTROL

A survey of general and cost accounting in modern practices used by industry to control material and labor costs, determine labor requirements, and estimate product prices.

In-8T. PRODUCTION PLANNING AND CONTROL

Preparation and planning for production. Routing, scheduling, dispatching follow-up. Control of inventory, receiving, stores, shipping. Forms and Reports.

In-9T. INDUSTRIAL SAFETY

A basic course in industrial accident prevention. Organizing for safety, mechanical safeguards, fire prevention, occupational disease safeguards, hygiene and first aid, safety codes, compensation, safety education programs.

Degrees

Awards

Register of Students

DEGREES AWARDED

June 9, 1951

College of Arts and Sciences

BACHELOR OF ARTS

Flavian Thomas Becker.....	Cincinnati, Ohio
Paul Josef Beshara.....	Columbus, Ohio
*Lester John Bohman.....	Dayton, Ohio
John Donald Bourk, Jr.	Lima, Ohio
Robert L. Brenner.....	Dayton, Ohio
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*Awarded the Alpha Sigma Tau Honor Key, signifying a cumulative Point Average for seven semesters of 3.50 based on 4.00 quality points.

†In absentia

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The Mathematics Club Alumni Award of Excellence in the Junior Class:

KENNETH ARTHUR BUSCH, of Dayton, Ohio.

The Miami Valley Alumnae (Sorosis) Award of General Excellence in both academic and extracurricular activities:

PAULINE ANN SPRING, of Dayton, Ohio.

REGISTER OF STUDENTS, 1951-1952

MUSIC WORKSHOP

June 11, 1951 — June 22, 1951

Amlin, Patricia R.

Burgin, Helen

Crowe, Joan

Berardi, Isidore

Coleman, Mary M.

Danoqewsh, Robt.

Binkley, Miriam

Coleman, Norma

Denlinger, Esther

Dillon, Mary E.
 Emerick, Barbara
 Frazer, Eleanor
 Glenn, Elgertha
 Glossinger, Rosella
 Graham, Lillian
 Griep, Mabel
 Jellison, Patricia
 Keller, John E.
 Koehn, Marie
 Koercher, Gertrude

Laird, Ruth
 Lang, Estelle
 Miles, Grace
 Ohm, Winifred
 Propst, Ruth
 Royer, Sarah
 Sauer, Madelyne
 Siniard, Fern
 Sollenberger, Helen
 Strang, Pauline
 Stueve, Julia

Switzer, Delta
 Szabo, Lillian
 Thomas, Muriel
 Thornburg, Thelma
 Tice, Annie Laurie
 Walker, Lutisha
 Wetherill, Loleta
 Winfield, Lauretta
 Wittman, Rita
 Young, Gladys
 Young, Nancy

SUMMER SESSION

June 25, 1951 — August 5, 1951

Abel, James H., S.M.
 Abele, Sr. M. Teresilda
 Abmayr, Geo. J., S.M.
 Abner, Wm. D.
 Adams, John R.
 Adams, Shefton S.
 Adelman, Norbert G.
 Agnew, Sr., M. Walter
 Akerd, Russell W.
 Akers, Clyde W.
 Allard, Lucien J., S.M.
 Allen, Dayton A.
 Althaus, Wm. D.
 Amass, Jesse
 Ames, Joy M.
 Amlin, Patricia K.
 Anderson, Inga E.
 Anderson, Ohmer J.
 Anderson, Wm. T., S.M.
 Angelos, Mike P.
 Andrews, Thos. E.
 Annunziata, Carmine T., S.M.
 Armbruster, Sr., M. Stella
 Armentrout, Everett C.
 Arnaiz, Rogaciano, S.M.
 Arnett, Carl A.
 Arnett, Gertrude
 Arnett, John W.
 Ashley, Hobert C.
 Aslakson, Hazel M.
 Atkins, Edwin F.
 Awalt, Chas. G., S.M.
 Aylstock, Robt. W.

Bailey, Grace N.
 Baker, Milton A.
 Balunas, Stanley
 Baltzer, Norbert J.
 Bange, Donald A.
 Bange, Sr. Rose Margaret
 Barbee, Robt. E.
 Barnard, Patricia L.
 Barnett, Van C.
 Barnhart, Don J.
 Barnhart, Earl E.

Barnes, Walter C.
 Barragan, Jose O.
 Barringer, Chadwick M.
 Barriteau, Rawlinson E.
 Barron, Mary R.
 Bartlett, Lorraine D.
 Bauer, Sylvia J.
 Baumgarten, James A.
 Baumgartner, Sr. M. Wilma
 Beacham, Marilyn R.
 Beard, Wm. H.
 Beauregard, Caroline C.
 Behm, Harold N.
 Behringer, Wm. R., S.M.
 Bellamy, Mary K.
 Benham, Emily V.
 Bennett, Geo. E.
 Benoit, Edw. A.
 Bensman, Ruth C.
 Benson, Robt. S.
 Berardi, Isidore
 Bergedick, Chas. T., S.M.
 Bergen, Gerald F., S.M.
 Berger, Cletus L.
 Berman, Isadore
 Berning, Cletus W.
 Bethel, Daniel R.
 Bielstein, Hans O.
 Binkley, Leona L.
 Bishop, John H.
 Bisson, Roland P.
 Bitzer, Helen M.
 Black, Ernest P.
 Black, Louis M., Jr.
 Blacker, Marjorie A.
 Blackwell, Woodford V.
 Bledsoe, Jewell
 Boerger, Veronica M.
 Bohn, Dorothy J.
 Bolin, John F., S.M.
 Boltz, Margaret R.
 Bolle, Fred J.
 Bolton, Edw. J.
 Booher, Elwood E.
 Borgerding, Virginia M.

Boster, Maurice J.
 Boughton, Elizabeth
 Bowles, Gladys M.
 Brackett, Jaclyn K.
 Braddock, Jennie L.
 Brands, Henry J.
 Brayton, Edna H.
 Braun, John D.
 Bream, Wm. H.
 Brennett, Gwendolyn J.
 Bricker, Theodore R.
 Brickey, Richard L.
 Briem, Denver
 Brooks, Melvin H.
 Brooks, Stella B.
 Brouner, Michael
 Brown, Grace J.
 Bruggeman, Thos. J., S.M.
 Burneka, Jos. W.
 Burnich, Wm. A.
 Byrd, James I.

Cahill, Jos. Donald, S.M.
 Callahan, Wm., S.M.
 Calhoun, James H.
 Camin, Alan J.
 Carpenter, Mathew C.
 Carr, Harriet D.
 Carsner, Leo D.
 Carter, Marion A.
 Carter, Ray D.
 Carye, Raymond A.
 Casey, Alice L.
 Cassidy, Eugenia F.
 Cassidy, Harold P.
 Castellano, Austin B.
 Catron, Marilyn F.
 Cetone, Arthur J.
 Chance, Dolores J.
 Chapman, Robt. W.
 Charles, James L.
 Chasens, Gertrude H.
 Chastain, Paul E.
 Chatman, Dona
 Chenez, Gordon H.

Chimento, Patrick J.
 Chong, Benjamin M.
 Choo, Peter T.B., S.M.
 Choquette, Jos. R., S.M.
 Christman, Patrick C.
 Christian, Wm. T.
 Ciani, Anthony M.
 Circosta, Robt. S.
 Civile, Jos. P.
 Clark, Alfred L.
 Clark, Eva Louise
 Clements, John R.
 Clinard, Wm. F.
 Clune, Anita Lea
 Cochran, John L.
 Cohen, Geo. S.
 Cohen, Orin
 Coleman, Edson F.
 Combs, Raymond R.
 Condon, Thos. C.
 Conley, Wilbur R.
 Connaughton, Jos. J.
 Connell, Frances M.
 Conner, David
 Conway, Thos. Anthony, S.M.
 Coon, Howard J.
 Cope, Ruby C.
 Coppess, Marilyn M.
 Cotner, Louise U.
 Courtney, Robt. E.
 Cousineau, Richard L.
 Cowie, Donald T., S.M.
 Cowman, Chas. M.
 Cox, Ralph P.
 Coy, Roscoe John
 Craig, Robt. L.
 Creech, Arthur E.
 Crowe, Joan L.
 Crowe, Wm. H.
 Crowell, Eva M.
 Crum, Auxier J.
 Cunningham, Corrine E.
 Cunningham, John D.
 Curren, Sr. Jane Patricia
 Curtin, Kathleen J.

Dahlmann, Donald E., S.M.
 Damron, Herbert
 Daniszewski, Robt. J.
 Darling, Donald E.
 Darner, Patrick
 Darst, Hobart M.
 DaSilva, Jorge E., S.M.
 Davenport, Raymond L., S.M.
 Davidson, Kenny
 Davis, Charms
 Davis, Marguerite
 Davison, Mildred K.
 Davis, Prince
 Day, James B.
 Deaver, Ferne H.
 DeBrosse, Bernard A.
 DeBrosse, Geraldine H.
 Dechant, Diane
 Del Do, Louis L.
 Denlinger, Esther B.
 Derham, Geo. R.

DeRozier, Robt. C.
 Dershem, Frances M.
 Devine, Geo. A.
 DeWillis, John M.
 Dick, Elza
 Dicks, Ida M.
 Dillon, Mary E.
 Dimke, Fred W.
 Dittmer, Daryl D.
 Dix, Richard J., S.M.
 Dixon, John E.
 Doncaster, James A.
 Doorack, Raymond E., S.M.
 Drummer, Robt. J.
 Dudis, Edw. A.
 Duffy, Richard E., S.M.
 Dunkelberger, Janet L.
 Durdle, Nelle P.
 Durnbaugh, Marcus E.
 Duvel, Sr. Francis Gertrude
 Dwinell, John L.

Earlywine, Robt. H.
 Eash, Harvey L.
 Effinger, Eugene A., S.M.
 Ehler, Barbara J.
 Eichelman, John E., S.M.
 Eilerman, Wm. L., Rev.
 Eley, Galen B.
 Elliott, Betty W.
 Ellison, Lloyd P.
 Endres, Maurice E.
 England, John S.
 England, Orion W.
 Enright, Robt. F.
 Erbaugh, Byron L.
 Erbaugh, Laura I.
 Erdman, Patricia A.
 Erickson, John A.
 Evans, Melva M. E.

Fair, Robt. E.
 Fawcett, Marjorie J.
 Feagans, Mary L.
 Feist, Sr. M. Philoberta
 Feldman, Irvin G.
 Feldman, Louis W.
 Feliciangeli, Arthur L.
 Fennell, John E.
 Fenner, Patricia A.
 Ferrero, Paul
 Fensler, Wm. E.
 Filer, Bertha D.
 Filoso, Don. M.
 Finke, Janet I.
 Finnen, Gerald W.
 Fischer, Wm. J.
 Fisher, Wm. J.
 Flook, Mary K.
 Flowers, Wm. E.
 Fluegeman, Sr. M. Frances Grace
 Fluegeman, Sr. Mariella
 Foell, John D.
 Foerste, James F., S.M.
 Folkerth, Harold E.
 Folkerth, Margaret B.
 Fonzi, Alfred J.

Ford, Geo. K.
 Foust, Euhie
 Franzer, Eleanor E.
 Frederick, Carl L.
 Fricke, Theresa A.
 Frisell, Martha
 Frost, Wm. R.
 Frye, Laverne W.
 Fuller, Robt. L.

Galbraith, Barbara A.
 Galbraith, Robt. L.
 Gange, Marion F.
 Garberson, Richard F.
 Gardiner, Arthur L.
 Gardner, Lawrence F., S.M.
 Garringer, Lewis J.
 Gausing, Chas. J., S.M.
 Gay, Wm. C.
 Gazda, Sr. M. Blanche
 Geiger, Chester L.
 Gesler, Henry J.
 George, Drusilla A.
 Gerspacher, Frederick A.
 Giambrone, Liberto A.
 Giglio, Peter J.
 Gillaspie, Mark W.
 Gilvary, James J.
 Gleason, James J.
 Goettemoeller, Leonary H., Rev.
 Goetz, James, S.M.
 Goltsos, Costas E.
 Good, Barbara L.
 Goodnough, Lawrence B.
 Goodwin, Carl E.
 Gordon, Donald W.
 Gras, Donald C.
 Greathouse, Robt. S.
 Green, Bill E.
 Gresock, Samuel J., S.M.
 Grieshop, Lawrence A.
 Grilliot, Clement L., S.M.
 Grisez, Alfred J., S.M.
 Griffiths, Wm. C.
 Grimm, Alfred J.
 Grosser, Leo C.
 Groth, Hilde S.
 Grusenmeyer, Robt. J.
 Grusenmeyer, John
 Gunn, Martha T.
 Gutowski, Halina B.

Hakenewerth, Quentin W., S.M.
 Hall, James S.
 Hall, Thos. B.
 Hallum, Joy
 Hamilton, Joanne
 Hamilton, Robt. M., S.M.
 Hance, Patrick J., S.M.
 Hane, John R.
 Hankins, Esther C.
 Hanley, Myles E.
 Hansford, Paul I.
 Harman, Jean M.
 Harper, Rene
 Harrigan, Thos. F.
 Harris, Clifford W.

- Harris, Foster E.
 Harter, John J.
 Hartlaub, Geo. H., S.M.
 Hastings, Irene
 Hawke, Andrew J., S.M.
 Hay, Bessie E.
 Hayden, Kenneth
 Heile, Sr. Muriel
 Heimann, Claire C.
 Hemmert, Anne L.
 Hengst, Donald S.
 Herbert, Bernard E.
 Heritage, Jack W.
 Herman, John L.
 Herr, Luella M.
 Hickerson, Richard F., S.M.
 Hickey, Robt. H.
 Hieber, Raymond C.
 Hilbert, Wm. F.
 Hilgeford, Charmaine R.
 Hill, Robt. M.
 Hobusch, Champ J.
 Hock, Gerald
 Hock, Harold
 Hoene, David J.
 Hofmann, Bernard T.
 Hofstetter, Chas. J., S.M.
 Hoganson, Hubert J., S.M.
 Hoke, Esther M.
 Holloway, Wm. A.
 Holsinger, Edith P.
 Holtel, Sr. M. Carol
 Homan, Juletta L.
 Horseman, Lowell J.
 House, Emma M.
 Howard, Preston O.
 Howes, Thos. V.
 Hoy, Chas. F.
 Hsiung, Yuh Hwa
 Higgins, Charlayne
 Hughes, Doris A.
 Hughes, Howard L., S.M.
 Hughes, Robt. E., S.M.
 Huldeman, Lester E.
 Hunter, Robt. L.
 Huntsberger, Vivian J.
 Hurst, Alfred D.
 Hury, Elizabeth
 Hussong, Fred E.
 Hutson, Elizabeth L.
 Hutzelman, Harry

 Iannone, Herbert R.
 Ireland, Frank T.

 Jackson, Betty J.
 Jackson, Chas. H.
 Jansen, Anthony G., S.M.
 Jarrell, Howard R.
 Jeffries, Donald W.
 Jellison, Patricia J.
 Jenkins, Rebecca M.
 Jennings, Ralph W.
 Jensen, Eileen S.
 Jensen, Finn H.
 John, Geo. H.
 Johnson, Helen R.

 Johnson, Jessie G.
 Johnson, Maurice L.
 Johnson, Omer T.
 Johnson, Virginia S.
 Jonas, Jane B.
 Jones, Barbara M.
 Jones, Eloise T.
 Jones, James E.
 Jones, Robt. E.

 Kacirk, Raymond J., S.M.
 Kahn, Robt. B.
 Karns, Dorothy Odell
 Kastle, Pat L.
 Kauffman, Joana R.
 Keegan, John J., S.M.
 Keeling, David W.
 Kelley, Anthony L., S.M.
 Kelly, Inez J.
 Kelley, John E.
 Kelly, John E.
 Kelly, Paul M.
 Kelly, Robt. V., S.M.
 Kelsey, Andrew J.
 Kemp, Vere E.
 Kenison, Genevieve M.
 Kessler, Kenneth C.
 Kile, Victor R.
 Kilroy, James E., S.M.
 King, Edna S.
 Kingman, Chas. E.
 Kingston, James H.
 Kinkade, Patrick J.
 Kinser, Wm. C.
 Klatt, Gerald W.
 Klaus, Francis J.
 Kleinhenz, Norbert J., S.M.
 Kling, Jack C.
 Klotz, Robt. J.
 Knapke, Luke B.
 Knickrehm, Walter A.
 Knoth, Richard A.
 Knuge, Richard M., S.M.
 Koehnen, John J.
 Koerbling, David A.
 Kohr, Donald L.
 Kokkinou, Epiphane C.
 Koleta, Wm. M.
 Konczal, Raymond E.
 Koverman, John V.
 Klepinger, Lowess S.
 Klepinger, Jeanita E.
 Kraffmiller, Stephen E.
 Kramer, Geo. A.
 Krebs, Jos. H.
 Kreider, Junietta E.
 Krumholtz, Sr., St. Michael
 Kuan, Pin-Lin
 Kuhn, Richard V., S.M.
 Kunes, James F., S.M.
 Kunk, Sr. M. Electa
 Kunka, Margaret
 Kuntemeier, Albert G., S.M.
 Kuntz, Jos. A.
 Kurtz, Joanne L.

 Lackey, Barbara L.

 LaFaso, John F., S.M.
 LaFayette, Mary L.
 Lala, Josephine E.
 Lator, Richard P.
 Landis, Phyllis J.
 Landolf, Paul J., S.M.
 Lane, Wm. L.
 Lange, Donald H.
 Langman, Beulah L.
 Laub, Sr. Imelda
 Lauber, Sylvester M.
 Lause, Louise C.
 Le Bu, Roy L.
 Lee, James A.
 Leigh, Wm. F.
 Lenz, Harry E.
 Leshner, E. Blodwyn
 Levitt, Marvin H.
 Lewicki, Clemens
 Lewis, Ernest M.
 Lewis, Sr. Mary Dolores
 Lichman, Sr. M. Bernadette
 Lickliter, Kenneth R.
 Link, Sr. M. Louise Agnes
 Linn, James W.
 Linthicum, Wm. A.
 Liston, Marilyn J.
 Little, Leonard R.
 Locke, Robt. B., S.M.
 Loeffler, Donald L.
 Loehlein, Richard A., S.M.
 Logan, Samuel W.
 Lohr, Loretta A.
 Lombardi, Victor M.
 Long, Sr. Louise
 Loomis, Ruth A.
 Lowry, Edw. G.
 Lucas, Julia E.
 Ludwig, August E., S.M.
 Luehrmann, Grace E.
 Lukaswitz, Susanne
 Lyon, Sr. M. Kathleen

 McCaudless, Mary R.
 McClure, Harold R.
 McCoy, James J.
 McCreary, Jesse G.
 McCune, Geo. C.
 McDaniel, Lee Roy
 McDonald, Mildred B.
 McDonald, Wm. G.
 McGrath, Richard J.
 McGraw, Roland F., Jr.
 McIlrath, Robt. J.
 McIntire, Jane J.
 McKinney, Ramon
 McLin, Ronald W.
 McMillin, Virginia A.
 McNeill, Jean Mary

 MacArthur, Guy
 Macauley, Barbara Ann
 Mahaffey, Richard G.
 Mallifiske, Sr. M. Louis
 Malloy, Paul J.
 Maly, Jos. E., S.M.
 Mapp, Robt.
 Marino, Nathaniel J.

- Marsh, Ruth B.
 Marshall, Everett M.
 Martens, Richard, S.M.
 Martin, Daniel J.
 Martin, James E.
 Martin, Joel D.
 Massa, Robt. P., S.M.
 Massey, Pat. H.
 Masters, Pauline P.
 Masur, James N., S.M.
 Matherly, Wm. M.
 Matheson, Esther P.
 Maurer, Donald S.
 Maushart, Edw. S.M.
 Maxwell, Christian D.
 Mayl, Wm. C.
 Mazuer, Thos. J.
 Medina, Eugenio F.
 Medeiros, Bernard E., S.M.
 Mehlhoff, Clarence J.
 Melnick, Walter
 Meier, Fred
 Merriam, Floyd F.
 Meyer, Irene M.
 Meyer, Melvin A., S.M.
 Meyer, Thos. C.
 Michael, Marcia D.
 Millat, Robt. E.
 Miller, Clyde H., S.M.
 Miller, Dale R.
 Miller, David D.
 Miller, Lucille E.
 Miller, Maxie D.
 Mills, Ann R.
 Misho, Lloyd L., S.M.
 Moeder, Jos. A.
 Moler, JoAnn V.
 Monnier, Sr. Mary Aimard
 Monnier, Sr. Mary Delbert
 Moore, Jeanne Marie
 Moore, Leola C.
 Moore, Robt.
 Moorman, Robt. G.
 Morasco, Bernardine A.
 Morgan, Lawrence W.
 Morgana, Emil, S.M.
 Morris, James R.
 Morris, Robt.
 Mort, Chas. B.
 Moses, Raymond C.
 Mullan, Francis P., S.M.
 Mumford, Hortense E.
 Muth, Eugene R.
 Muth, Thos. L.
 Muzi, Titus J.
 Naal, Urban, S.M.
 Nadickbernd, Sr. Mary William
 Nahn, Mary C.
 Nakagawa, Francis T., S.M.
 Nancarrow, Miriam V.
 Nanni, Vincent
 Neil, Chas. R.
 Nelson, Jos. L.
 Nelson, Lenora L.
 Nicholson, Earl H.
 Nicholson, Gilbert O.
 Nitoski, Norman S., S.M.
 Nolan, Clemon R.
 Norman, Howard R.
 Norris, Mark E.
 Novak, Ernest A.
 Nunes, Robt. J., S.M.
 Nyberg, Chester J.
 Nyberg, Karina L.
 Oakes, Wm. W.
 O'Brien, Wm. E., S.M.
 O'Connor, James E.
 O'Donnell, John T., S.M.
 O'Donnell, John T.
 O'Hara, Yoshiharu
 O'Hearn, Robt. H.
 Ohlstein, Myron
 O'Leary, Wm. D., S.M.
 Olt, Donald M.
 O'Neill, Thos. R.
 Onerem, Jack D.
 O'Reilly, Kevin J., S.M.
 O'Reilly, Phillip A.
 O'Toole, Edgar W.
 Otto, Howard R.
 Overly, Howard E.
 Owen, Marion B.
 Pahl, Robt. H.
 Patrie, Patricia A.
 Patterson, Luddie E.
 Paulson, Ardell C.
 Pawlow, John D., S.M.
 Pax, Henry A.
 Payne, Elizabeth L.
 Perotta, Christopher J.
 Pfeiffer, James C.
 Pfister, Geo. E.
 Pint, Robt. J., S.M.
 Ponder, Ervin, Jr.
 Pooch, Doyle G.
 Potter, Jack E.
 Powell, May L.
 Price, David W.
 Prince, Jos. A.
 Procopio, Leo J.
 Propst, Ruth K.
 Proud, C. James
 Pickwell, Helen B.
 Radican, Patricia E.
 Radius, Sidney L.
 Rafols, Edwin
 Ralston, Richard G.
 Ramirez, Victor M.
 Randall, Arlie M.
 Randall, Worth J.
 Rankin, Robt. E.
 Rataiczak, Frank R.
 Reardon, Jos. E.
 Reese, Stanley J.
 Rehs, Ferdinand P.
 Reich, Paul A., S.M.
 Reynolds, Louetta A.
 Rhines, Bill N.
 Rhoades, Louis H.
 Rice, Donald E.
 Rice, Donald W.
 Richard, Chas. W.
 Richard, John C.
 Rihm, Clarence W.
 Riley, John E.
 Rindler, Aloys Jr.
 Roberts, Ben
 Rodenberg, Gordon J.
 Roderer, Raymond H.
 Rodriguez, Robt. A.
 Roggemann, Chas. D., S.M.
 Rohr, Clara
 Rohr, Thos. E.
 Romer, Daniel Mark
 Rosenbeck, Odra M.
 Rosenberg, Max
 Ross, Herbert M.
 Ross, James C.
 Rossiter, Edw. S.
 Rossman, Chas. L., S.M.
 Rowe, Abraham J.
 Roysdon, Margaret L.
 Ruda, Peter A.
 Ruggles, Gene F.
 Ryan, Lyn J.
 Saberton, Harry L.
 Samaha, John M., S.M.
 Sampson, Plumer
 Sanchez-Navarro, Michael, S.M.
 Sanderson, Mary Ann D.
 Sauer, Virginia
 Saunders, Augustus Percival
 Savino, Jos. D.
 Sawyer, Wilson W.
 Sayer, Wm. P.
 Saylor, Patricia A.
 Schalley, Jos. G.
 Scheible, Jos. A., S.M.
 Schleicher, Eugene P., S.M.
 Schmall, Robt. A.
 Schmidt, Albert W.
 Schmidt, Robt. C.
 Schuetzer, Robt. F.
 Schroeder, Shirley
 Schroeffer, Francis J., S.M.
 Schroer, Sr. Mary Michel
 Schul, Katherine K.
 Schulhof, Erika E.
 Schultheis, Alvira E.
 Schutter, Ernest
 Schwab, Margaret M.
 Schwamb, Walter G.
 Schwartz, James N.
 Schwenkel, Jane D.
 Schwinn, Robt. H.
 Search, Paul F., S.M.
 Segers, Thos. E.
 Seifert, Jack F.
 Seremetis, Geo. G.
 Setter, Henry C., S.M.
 Sewell, Mary C.
 Shahan, Earl E.
 Shartle, Chas. M.
 Shay, Frances A.
 Shay, Paula M.
 Sheidler, John C.

- Shellabarger, Thos. E.
 Shepard, Irvin G.
 Shepherd, Lois M.
 Sherman, Patricia L.
 Sherrer, Richard P.
 Shields, Doris I.
 Shively, Lawrence A.
 Shiverdecker, Helen M.
 Shleier, Raymond A.
 Silverman, Ron
 Simerman, Roberta L.
 Simon, Helen M.
 Simmons, Donald N.
 Simpson, Thos. I.
 Sims, Herndon
 Sinder, Shirley
 Sinsel, Hazel E.
 Smartt, Earl
 Smith, Clifford
 Smith, David R.
 Smith, Swayne G.
 Smith, Evelyn O.
 Smith, Geo. M.
 Smith, Harry J.
 Smith, Harold D.
 Smith, Navaro C.
 Smith, Nelson E.
 Smith, Robt. A.
 Smith, Roy W.
 Smith, Thos. M.
 Smith, Violet D.
 Smith, Wanda G.
 Snyder, Albert B.
 Soder, Ray C.
 Solamillo, Estanislao M.
 Sollenberger, Helen L.
 Sommers, Jane R.
 Sopcak, Chas. F.
 Southard, Orville M.
 Spaeth, Frank T.
 Spahr, Frederick S.
 Spehar, Jos. M.
 Spillan, Edw. J.
 Spoerl, James A.
 Sponzilli, Wm. A.
 Sprenger, Alan M.
 Springer, Janet G.
 Stamas, Paul J.
 Stanch, John M.
 Stebe, Nicholas J., S.M.
 Stube, Gertrude H.
 Steinmetz, Virginia B.
 Stevens, Sandra L.
 Stevenson, Jack C.
 Stimas, Michael J.
 Stith, Raymond J.
 Stoecklein, Jos. D.
 Stoff, Donald J.
 Stone, Alfred R.
 Stouffer, Lena Bille
 Stout, Henry D.
 Strang, Pauline U.
 Stueve, Julia M.
 Stueve, Raymond J.
 Stumm, Ewing
 Stupka, Daniel R., S.M.
 Sturm, Henry H.
 Sullivan, Anna L.
 Sullivan, Mary C.
 Susco, Eugene C.
 Sutter, Dale D.
 Swick, John E.
 Tangeman, James H.
 Tate, Elmer C.
 Tate, David W.
 Tate, Virginia B.
 Taylor, Sr. M. Iona
 Taylor, Geo. J., S.M.
 Taylor, Vaughn K.
 Taylor, Wm. H.
 Teufeh, Christine M.
 Thomas, Emil J.
 Thomas, Vernon E.
 Thombs, W. Howard
 Thompson, Raymond L.
 Thompson, Roberta A.
 Thomson, Robt. A., S.M.
 Thornton, Sam M.
 Tilson, Lester C.
 Titsch, Fred E., Jr.
 Tobias, Kenneth L.
 Tomlinson, Mary Ann
 Tonry, John, S.M.
 Traber, Harry K.
 Trace, Betty C.
 Tranter, Geo. T.
 Treinen, Robt. S.
 Trevino, Jose A.
 Thick, Norbert D., S.M.
 Trick, Robt. L.
 Thimble, Hallie W.
 Trozzo, Salvatore F., S.M.
 Trucano, Guy L.
 Tunney, Matthew D.
 Tupman, Louise
 Turnblazer, John L.
 Turner, Estella M.
 Tweton, Gladys V.
 Ubinger, Paul A., S.M.
 Uhlenhake, David J.
 Underwood, Deal L. O.
 Unger, Elmer, Jr.
 Unger, John L.
 Valiukas, Leonard A.
 Van Atta, Albert D.
 Vangrove, Helene R.
 Vardalides, Tula Z.
 Vescio, Fred J.
 Villemain, Herbert F.
 Vinson, Vivian B.
 Vogel, Adam P., Jr.
 Volk, Alfred V.
 Volk, Wm. A.
 Wabler, Paul J.
 Wackler, Raymond L.
 Wade, Ruth N.
 Wagner, Lester F.
 Wagner, Mary F.
 Walker, Jane C.
 Walker, Una
 Wall, Ada B.
 Wall, Barbara A.
 Wallace, Vera A.
 Wampler, Louis C.
 Ward, Elizabeth F.
 Warner, Ronald A.
 Wartinger, Robt. L.
 Watson, Robt. M.
 Webb, Willa F.
 Webb, Wm. L.
 Weeks, Elvin D.
 Wegner, Nancy E.
 Wehner, Edw. H.
 Wehner, Richard E.
 Weimer, Alice B.
 Welshons, Leonard E.
 Wenat, Ivy L.
 Whedon, Spencer
 Whiting, Geo. E.
 Widmer, Firmin G., S.M.
 Wiedemann, Ernest H.
 Wildenhaus, Gerald H.
 Wiles, Lawrence A.
 Wilkerson, Daisy B.
 Wilkins, James W., Jr.
 Wilkins, Jos. P., S.M.
 Will, Earl H.
 Wilson, Delbert F.
 Wilson, Jack C.
 Wilson, James M.
 Wimsatt, Thos. K.
 Windisch, Adolf M., S.M.
 Winfield, Lauretta C.
 Winterhalter, Paul B.
 Witherspoon, Leon R.
 Wittman, Rita A.
 Wojczynski, Donald A., S.M.
 Wolf, Nelson D.
 Wolfe, Clifford E.
 Wonka, Helen A.
 Wood, Curtis E.
 Wormwood, Eunice I.
 Wright, John H.
 Wright, Robt. B.
 Wright, Robt. F.
 Wuco, Raymond D., S.M.
 Yamada, Thos. S.
 Yearick, Harry G.
 Yeck, Willa S.
 Young, Beverly A.
 Young, Mildred W.
 Young, Velma Reed
 Youngman, Martha E.
 Zaenglein, Wm. C.
 Zahn, Raymond E.
 Zapotocny, Jos. M.
 Zehring, Robt. H.
 Zimmerlin, Leland H.
 Zimmerman, Geo. E.
 Zink, Sr. M. Bede
 Zolg, Otto J.
 Zuback, Melvin
 Zullo, Andrew W.
 Zummo, Jos. J.

SUMMER SESSION

(Evening Classes Only)

July 23, 1951—August 30, 1951

Adams, R. A.
Arvai, Carl J.

Barbour, James B.
Birdwell, Richard H.
Blye, Ralph W.
Bochenek, Francis S.
Bowen, Solomon T.
Brentlinger, Robt. O.
Brigner, Damer O.

Camp, Paul
Capstick, Robt. R.
Carroll, Wm. E.
Cavey, John E.
Clark, Donald E.
Collopy, John T.
Condon, S. Ann
Copeland, Clarence
Couch, Frank V. B.
Cretcher, Donald B.
Cuny, Geo. A.
Cyphers, Martin L.

Davis, Lloyd E.
Deubner, Roscoe S.
Dicken, Clifford C.
Dietrich, Jos. John
Donahue, Dan S.
Dreety, Myer H.
Dutton, Wm. C.
Edmunds, Wm. H.
Einbinder, Louis W.
Ellenwood, Wendell W.
Eshbaugh, Mark E.
Evans, Chas. W.

Fanning, Garner B.
Ferguson, Winston B.
Fisk, Chas. K.
Floyd, Harry G.
Fox, Geo. L.
Frاندell, Cloys J.

Garber, Jos. R.
Garber, Selma
Gerrard, Wildred G.
Gertz, Robt. L.
Gorman, Kelcie C.
Graham, Charlie L.
Green, Luther W.
Gregory, Paul L.
Grier, Lawrence L.

Hadlin, Emanuel
Haffner, Robt. L.
Hample, Ruth A.
Hancock, John A.
Hanson, Harold W.
Harris, Robt. H.
Hauser, Paul D.

Herring, John A.
Hicks, Walter W.
Higgins, Dorvin E.
Hill, Plato S.
Hobbs, Wm. H.
Horn, Frank W.

Jackson, James R.
Jackson, Ollie W.
Jamison, James D.
Jenkins, Clifton
Jones, Arthur G.
Judd, John W.

Kasparian, Casper
Kauffman, Sarah D.
Keister, Ernest I.
Kinker, Clarence R.
Knox, Warren H.
Konen, Geo. H.
Kozlowski, John W.

Langseth, Valborg
Larsen, Lauritz S.
Lasansen, Geo.
Lathrop, Robt. E.
Lauber, Floyd J.
Laughlin, Jos. S.
Lechleitner, Fred H.
Leopold, Edw. F.
Levison, Walter J.
Limeburner, John E.
Limoli, John K.
Lodge, Frank L.
Long, Franklin S.

McCarthy, Thos. H.
McClellan, Earl V.
McCord, Ross L.
McKinley, Dale
McKinley, Gale
MacCanon, Eldon C.
MacGregor, Donald
Mahler, Jos.
Matthews, Alexander
Meyers, Henry J.
Minerick, Katherine F.
Moody, James N.
Moore, Bronson
Myers, Wm. P.

Nellis, Raymond E.

Oglesby, Frank R.
O'Malley, James J.
Ormes, Maurice G.
Otto, Eugene M.
Owen, Wm. J.

Palmtag, Herbert M.

Patterson, Willard A.
Pearon, Robt. C.
Pence, Cecil
Pennington, Victor P.
Petaja, Ahti E.
Plott, Chas. L.
Plummer, Chas. F.
Poepfelmeier, Ray J.
Porter, Edw. M.
Powers, Philip S.
Pryor, Willie N.
Puterbaugh, Raymond G.

Ramsey, Sarah A.
Ray, Edith M.
Ressler, Clarence E.
Riordan, John J.
Ritter, Ralph M.
Robinson, Wm. H.
Rocco, Frank C.
Rose, Raymond D.
Rose, Warren F.
Ruef, Ernest J.

Sanderson, Harold L.
Sauer, Hugh C.
Schaefer, Norman M.
Schamp, Asa A.
Schauer, Frank N.
Schmidt, Victor H.
Schumacher, Louis B.
Schwab, Margaret M.
Scott, James A.
Shafer, Theodore C.
Shaffer, Dorance R.
Shump, Sherman J.
Sine, Franklin E.
Smith, James C.
Smithhart, Leslie
Stemmer, John A.
Stevens, Harold H.
Stoner, Lyle W.
Stose, Donald R.
Swift, Wm. R.
Sword, Carl R.

Tallman, James A.
Taylor Robt. G.
Terry, Francis
Thompson, Russell B.
Toner, James H. E.
Trissel, Paul E.
Tsarones, James

Ungericht, John W.

Vance, Edw. J.
Vaelkl, Wm. E.

Wagencz, Wm. G.

Walmer, Harry E.
Ward, Mary E.
Warlin, Daniel A.
Wasleff, John

White, Lacy W.
Williams, Alex C.
Wilt, Marilyn H.
Wimsatt, Clarence E.

Wood, Robt. F.
Woodward, Geo. D.
Woolfork, Robt. E.
Zimet, Geraldine R.

SUMMER SESSION

(Moler's Dairy Only)

July 11, 1951—August 27, 1951

Archer, Lester A.
Bennett, Robt. R.
Bennett, John S.
Boesenberg, Harry H.
Cantrell, Bruce A.

Cline, John E.
Dean, Wm. K.
Dickey, E. Ralph
Leaming, Maynard R.
Silverthorn, Dale L.

South, Harold R.
Stemmer, John A.
Stine, Willard E.
Williams, Joel E.
Yoshida, James N.

DAY CLASSES

September 17, 1951—June 7, 1952

The numeral "1" after a name indicates attendance during the first semester only; the numeral "2" indicates attendance during the second semester only; no numeral indicates attendance during both semesters.

Ackermann, Shirley Ann
Adams, James Arnold, 2
Adams, John R, Jr.
Adler, Wm. 1
Agoston, Louis Francis
Aiple, Geo. Jos.
Aiwohi, John Davidson
Akau, James Keeaumoku
Albers, Lucille Joanne
Albers, Robt. Wm.
Albro, David, 1
Alexander, Clarence E.
Alexander, Marianna Will
Allen, Dayton Albert
Altwicker, Elmar R.
Altwicker, Renate Maria
Alves, Manuel John, 2
Amato, Margie Ann
Ammann, Ellen Maria
Ammann, Margaret M.
Anderson, John Chas.
Anderson, Marjorie, 1
Anderson, Ohmer Jack
Anderson, Thos. E.
Andrews, Felix Geo.
Andrews, Thos. E., 2
Angelos, Mike P.
Angerer, Clarence John
Ankney, Wm. T.
Antunano, Garcia E.
Aplin, Robt. J.
Appold, Marion Willis
Ard, Wilma Jean
Arnett, John Wm.
Aslakson, Hazel M.
Atkinson, Norman
Au, Ben Wai Chee
Aylstock, Robt. Wm.

Backs, Chas. Jos.
Badum, Gerard Jos.
Baird, Ralph Maurice
Baker, Hattie May
Baker, Richard Owen
Baker, Wm. S.
Balcunas, Stanley
Ball, James Arthur II, 2
Ball, Wm. G, 2
Ballou, Wm., 1
Balster, Walter John
Baltes, Marilyn Louise
Bange, Donald Anthony
Banister, Jos. Norman
Bankston, Lorraine H., 2
Barbosa, Julie, 1
Barbour, James, 1
Bardo, Geo. Anthony
Barker, Chas. M.
Barnard, Patricia, 1
Barnes, Bernard Marion, 2
Barnes, Walter Chas.
Barnett, Wm. E.
Barragen, Jose, 1
Barringer, Chadwick, 1
Barriteau, Rawlinson E.
Basel, Robt. J.
Bath, Jos., 1
Batsche, Joan Claire
Batsche, Ralph Wm.
Bauer, Sylva Jane
Baujan, Geo. Edw.
Baxter, Chas. Wm.
Beach, Richard Francis
Beck, Leonard Henry
Becker, Carol Jean
Becker, Jean Claire
Becker, John Thos.

Becker, Robt. Gene
Beckham, James Dixon
Beckley, Gaylord Keallikoa
Beckley, Geo. Chas. II
Beckley, Ramona-Joy
Bedwell, Raymond Taylor
Beis, John Thos.
Bell, Edw. Franklin
Bell, Ella, 1
Bellmyer, Richard Gene
Belt, Virginia Jackson
Bendele, Ruth Marie
Bender, Mary Alice
Benham, Emily Verwold
Benner, Wm. G., 2
Berardi, Isidore Dominick
Berberich, Sr. M. Christella,
S.P.S.F.
Berberich, Thos., 1
Berens, Alan Paul
Berg, Ronald Jos.
Berger, Denis Lee
Bernier, John F.
Bertino, Chas. Daniel
Bertram, Norman Lee
Bertrand, Richard Earl
Bertsch, Thos., 1
Best, Robt. Louis
Beverley, Helen Marie, 1
Bevis, Stanley Gay
Bidard, Sr. M. Florecita, S.P.S.F.
Biedenbender, Wm. Henry
Bielitz, Gisela E.
Biersack, Geo. Clement
Bigelow, Wm. Jos.
Bilbrey, Bernice Boen
Billett, Wilda Mae
Billows, Ronald A.

- Bily, James Neal
 Bishop, David, 1
 Blackwell, Woodford Vertrese
 Blaeser, Henry Paul
 Blaine, Donald L., 2
 Blau, Jude Anthony
 Bledsoe, Jewell
 Blessing, Jean, 1
 Blommel, John Wm., 1
 Bodary, John Richard, 2
 Boesch, Horace John
 Boggan, Jos. Roy., Jr., 1
 Bohman, Jerome Bernard
 Bojanowski, Clement, 1
 Boland, Wm. Patrick
 Bolle, Frederick Jerome
 Bollinger, Thos. Edw.
 Bolton, Donald Edw.
 Bolton, Edw. James
 Bonahoom, Michael J.
 Bonbright, Harry Ward
 Booker, Thelma, 1
 Boorman, John M.
 Bores, Barbara Ann
 Borgert, Theodore E.
 Born, Richard Albert
 Borton, Thos. K.
 Boster, Maurice J.
 Bothe, Glenn Meinrad
 Bouchez, Russell J.
 Bourgeois, Shirley M.
 Bourne, Richard Alfred
 Bowden, Catherine, 1
 Bower, Gracie Dolores, 1
 Bowles, Charlotte Jean
 Bowling, Robt. Gene
 Bowman, Martha Jane
 Bowman, Norma Sue
 Bowman, Phillip L.
 Boyd, Gerald Martin, 2
 Boyle, Peter John
 Boyle, Robt. J.
 Bozyski, Valentine W.
 Brady, Robt., 1
 Bramlage, John Chas.
 Brands, Henry Jos.
 Brandt, Chas. Alfred
 Brandt, John, 1
 Brannon, Gordon Lewis
 Branscomb, Wm., 1
 Brant, Chas. Ensign
 Brashear, Ralph Guy
 Braumiller, Chas. C.
 Braun, James Richard
 Braun, John David
 Brawley, Wm. Aloysius
 Bree, Sr. Mary Rosaire, M.S.C.
 Breen, John Patrick
 Brehm, DeWitt Richard
 Breig, Allen Lee
 Brennan, Daniel John
 Brennan, Joan Elizabeth
 Brennan, Wm. Bernard
 Brent, Wm., 1
 Brest, Carl Norman
 Brewer, Carol C.
 Brewer, Raymond, 1
- Bricker, Theodore R.
 Bridstrup, Norman A.
 Briehl, Martin, 1
 Brockbank, Jos. Bentley
 Brockmeyer, Mary E.
 Brocane, Albert Anthony
 Brodbeck, Thos. Allen
 Bronder, Jos., 1
 Brookey, James Lee
 Brooks, Mary June
 Brooks, Melvin Henry
 Bronder, Jos. B., 2
 Brown, Chardor, Jr.
 Brown, Ethel Mae
 Brown, Helen Arlene
 Brown, James Howard
 Brown, Jean H., 2
 Brown, Ralph Douglas
 Browne, Jos. James
 Bruegge, August, 1
 Bruhn, Donald Frederick
 Bruin, Michael Paul
 Brumbaugh, Robt. R., 1
 Brune, John Edw.
 Brunk, Leslie Keith
 Bruns, Elmer Clement
 Brusk, Regina M., 2
 Bucher, Elwood, 1
 Buck, John, 1
 Buckner, Edwin, 1
 Buerhaus, Alexander G.
 Bulcher, James Lewis
 Burger, Jack Dale
 Burbrink, Donald W.
 Burg, Eugene Jos.
 Burger, Rudolph
 Burke, Mary Catherine
 Burks, Bert Leo
 Busch, Gerald Eugene
 Busch, Kenneth Arthur
 Bush, Wm. Giles
 Busillo, Querino A.
 Bustillo, Frank R.
 Butler, John Richard
 Butler, Lee Aloysius
 Byrd, James Ira
 Byrne, John M.
 Byrne, Patrick J.
 Byrne, Thos. J.
 Byrne, Wm. Jos.
- Cadix, Manuel John
 Caes, Clyde Jos.
 Caesar, Paul Kenneth
 Cahill, Paul V.
 Caho, Wm. J.
 Caldwell, Allen B.
 Caldwell, Eddie, 1
 Caldwell, Frank Jos.
 Calhoun, James Harmon, 1
 Callahan, Jos. P., 2
 Cameron, Sally Jane
 Camin, Alan J.
 Campbell, Bonnie Lou
 Campbell, Herbert M.
 Campbell, Howard M.
 Cannarozzi, Louis J.
- Capron, Robt. E.
 Carbonell, Miguel Jose
 Carcelli, Dolores Ann
 Carmody, John, 1
 Carney, Patrick G., 2
 Carolina, Robt. Frank
 Caron, John Eugene
 Carro, Salvatore, 1
 Carroll, John W., 2
 Carroll, Thos. Manley
 Carsner, Leo Dale
 Carter, Jos. Reed
 Carus, Laureano Jose
 Caserta, Wm. W.
 Casey, Daniel Jos.
 Cashdollar, John Edw.
 Cassidy, Gerald D., 2
 Cassidy, Paul Vincent
 Cassidy, Walter Edwin
 Castle, Lawrence, 1
 Castle, Thos. Delbert
 Catron, Marilyn Frances
 Caulfield, Margaret Ann
 Cenname, James Louis
 Cetone, Arthur, 1
 Chance, Dolores Jean
 Chaney, John Peter
 Chang, Wilbert Hu Kum
 Charles, James L.
 Chatman, Dona (Mr.), 1
 Chinery, Lawrence A.
 Chmielewski, Peter E., Jr.
 Chong, Benjamin Mun Kwong
 Christian, John, 1
 Christian, Wm., 1
 Christman, Patrick Carl
 Chun, Edw. K. M.
 Ciani, Anthony Michael
 Cichanowicz, Theresa A.
 Cionni, Jos.
 Cisco, James Wm.
 Civile, Jos. Paul
 Cizek, Donald Francis
 Clark, Ernest, 1
 Clark, Noel Emeral
 Clark, Robt. Lee
 Clark, Willard C.
 Clark, Wm. Francis
 Clarke, John Harmon
 Clayton, Gerald L.
 Clayton, Rosa Mary
 Cleary, John G.
 Clemens, Edw. G.
 Clemens, Richard Phillip
 Clemens, Thos. Frank
 Clements, John R., 2
 Clemmer, Paul Jos.
 Clinard, Wm. F.
 Clinker, Bernard J.
 Clinton, Arthur
 Cloar, Robt. B.
 Clune, Anita Lee
 Cofer, Ned Ryan
 Cohen, Geo. Sol.
 Coleman, Clifton W.
 Collins, Wm. P.
 Combs, Jack Lee

- Common, James, 1
 Condon, S. Ann, 1
 Condon, Ronald Lee, 1
 Condon, Thos. C.
 Conley, Wm. Edw.
 Connaughton, Wm. F.
 Connema, Richard, 1
 Conners, Chas. W.
 Connolly, John Jos.
 Connolly, Suzanne M.
 Cooper, Michael H.
 Cope, Ruby C.
 Copple, Fred
 Cornett, Geo., 1
 Cornett, Robt.
 Corwin, Paul
 Cosimati, James V.
 Costas, James
 Courtney, Robt. Eugene
 Cowden, Beverly W.
 Cowell, Ted, 1
 Coy, Richard Gene
 Coy, Roscoe John
 Cozart, Larry Clark
 Crawford, Robt. E.
 Cress, Naomi A.
 Crews, Clifford Vernon
 Critchfield, Leroy, 1
 Cron, James Albert
 Crossley, Donald Raymond
 Crotty, Leo Wm.
 Crowe, Joan Lillian
 Crowell, Mildred, 1
 Crowley, James Anthony
 Crown, Chas. Wm.
 Cruca, Barbara L., 2
 Crutcher, Aurelia
 Crutcher, Lois Marie
 Csizma, Emery
 Cuddy, Jos. Aloysius
 Culhane, John Jos.
 Culver, Jon Maxwell
 Cunningham, Betty Florine
 Cunningham, Edw., 1
 Cunningham, James Henry
 Curci, Jos.
 Curley, Wm. Francis
 Currin, J. Patrick
 Currin, James Alan
 Curtin, Helen Virginia
 Cutcher, Wm. David
 Cyphers, Martin
- Dacek, Jerome Jos.
 Dale, Kathryn Virginia
 Daley, Robt. Emmett
 Damron, Herbert, Jr.,
 Daniel, Chas. James, 1
 Daniszewski, Robt. John
 Daniel, Chas. James, 2
 Darcy, John Francis
 Darling, Donald Earl
 Darner, Patrick, 1
 Dartt, Donald James
 Datz, Vincent Thos.
 Daum, Richard Jos.
 Davidson, Kenneth
- Davis, Arthur Nathaniel, 2
 Davis, Kermit B., 2
 Davis, Prince
 Day, James Blair
 Day, Robt., 1
 Deal, Richard Bazzell
 Dechant, Donald Clarence
 Deffet, Geo. Henry
 Deffet, Jos. P.
 DeGarmo, Julia C., 1
 DeHart, Chas. James
 Delaney, John Dowd
 Delehanty, John J.
 Delgado, Marco A., 1
 Deming, Robt. E., 1
 Dennis, John Paul
 DePasquale, Edw. S.
 Derham, Geo. Robt., 1
 Desch, James B., 2
 Develbiss, Jack Ardell
 DeVol, Catherine L.
 Dickas, Frederick Daniel
 Dieker, Chas. David
 Dieringer, Raymond, 1
 Dillon, Ray L., 2
 Dine, C. Lawrence, 1
 Dineen, Robt. Daniel
 Dinkel, Phyllis L.
 Ditzel, Thos. Mervyn
 Dixon, John Edw.
 Dixon, Phyllis Lelia
 Dobbins, Richard Lawrence
 Dodson, Lloyde Dale, 1
 Dolan, John P., 1
 Dominic, Robt., 2
 Doncaster, James F.
 Donisi, Mary Patricia
 Donnelly, James W.
 Donohoe, Donald J.
 Donohoe, Albert Henry
 Donohoe, Wm.
 Donohue, Thos. Henry
 Donovan, John Patrick
 Doody, Richard Daniel
 Dornstadter, P. Jack, 1
 Dortch, Wm. Alfred
 Douglas, Dorothy Jane
 Douglass, James B.
 Dovey, Robt. Edw.
 Doyle, John, 1
 Drake, Stanley Thos.
 Drees, Doris Ann
 Drees, Ruth Ann
 Drescher, Otto John
 Dressler, Gene Henry
 Driscoll, Stephen J.
 Dudley, Eddie J.
 Duell, John Leonard
 Duffy, Alice Marie
 Duffy, John T., 1
 Dugan, Donald Gerald
 Dunham, Shirley Mae
 Durbin, Richard Ralph
 Durnbaugh, Chas. F.
 Duschinski, John A., 1
 Dutton, Wm. C., 1
 Dwyer, Francis Daniel
- Dwyer, Thos. Walter, 2
 Earlywine, Robt. H.
 Eberts, Robt. Eugene
 Ednie, Edw. A., 1
 Egan, Eugene Richard
 Egan, James Francis
 Ehrmann, Sr. Mary Cordia,
 M.S.C., 1
 Eickman, Marilyn Marie
 Eilerman, Robt. Jos.
 Eisenhauer, Richard J.
 Eisenlohr, Robt. Rollin
 Eiting, Jack Ralph
 Ekberg, Donald Carl
 Eley, Galen Byron, 1
 Elliott, Richard L.
 Elliott, Robt. G.
 Elliott, Theodore W., 1
 Ellis, Paula, 2
 Elworth, Chas. L.
 Ely, Joyce Ann
 Ely, Lael Marguerita
 Emerick, Barbara L., 1
 Emmert, John C., 1
 Emmons, Jo Anne, 2
 England, Mrs. Orion W.
 Enoch, Clara Louise
 Enouen, Wm. Albert
 Enright, Robt. F.
 Ens, Mary A.
 Entz, Wm. Lee
 Erickson, John A., 1
 Ernst, Chas. Henry
 Ernst, Donald Edw.
 Eshbaugh, Kenneth Lee
 Eshelman, Thos. C.
 Espy, Bruce Jos.
 Esser, Wm. Henry
 Estridge, Jack Hugh
 Evans, David Roland
 Evans, John Michael
 Evers, Anthony Jos.
 Evers, Richard Lee
 Ewing, Stumm, 2
 Eynon, Harold Joe
- Faiella, John Michael
 Falke, Patricia Louise
 Farrell, Wm. James
 Faulkner, Joanne L.
 Fecher, Marion Jude, 1
 Feeney, John E., 1
 Feidner, Edw. Jos.
 Feist, Sr. M. Philoberta, S.P.S.F.
 Feldman, Louis Wm.
 Feliz, Robt. G., 1
 Felter, Jack Lawder
 Fernandez, Jose Luis, 1
 Fernandez, Jose M. R.
 Ferrara, Jose V., 1
 Ferrero, Paul, Jr.
 Ferris, Wm. Edmund
 Feuser, Willfried
 Few, Robt. Curtis, 1
 Fiehrer, Kenneth Norbert
 File, Thos. M.

Fillenwarth, Henry James
 Filoso, Donald M.
 Finan, Richard Howard
 Finch, Doris Edna
 Fink, Robt. Richard
 Finke, Janet Irene
 Finke, Richard Edw.
 Finke, Robt. Jos.
 Finnen, Gerald Walter
 Fischer, Laverne Mary
 Fischer, Marlene, R., 2
 Fischer, Robt. Franklin
 Fischer, Roy Fred
 Fishbaugh, Wm. Francis
 Fishberg, Claire L., 1
 Fisher, James Bernard
 Fisher, Robt. Louis
 Fisher, Wm. John
 Fitz, Cyril John
 Fitzenz, John Arthur
 Flaute, Howard A.
 Fleat, Howard A.
 Flinn, Wm. M., 1
 Flood, Richard King
 Fluegeman, Sr. Mariella, S.P.S.F.
 Flynn, Anne Mary
 Flynn, Edw. Francis
 Fogle, Earl Eugene
 Foley, Denis Michael
 Folks, Lily D., 1
 Ford, Gerald Dennis
 Ford, Lowell Edwin
 Ford, Wm. Edw.
 Foreman, James Jos.
 Fortener, Wm. J.
 Fosnaugh, Harland Ralph
 Foushee, John Louis
 Foust, Eubie D., 1
 Fox, Richard E.
 Fox, Thos. Jos.
 France, Orville A., Jr.
 Francis, Donald Paul
 Frank, Larry Eugene
 Frazier, Marilyn
 Free, Ronald M.
 Fremont, Wm. D.
 Frericks, Sr. M. Clarita, 1
 Frericks, Thos. J.
 Frey, Wm. Jos.
 Freytag, Edw. Carl, Jr.
 Fricke, James Edw.
 Fricke, Theresa Ann
 Fries, Frank Paul
 Frietch, Sr. Laura Marie
 Fristik, Wm. Robt.
 Frueh, Nancy Elizabeth
 Frye, Kenneth L., 2
 Fu, Chen
 Fuesting, Edw. J., 1
 Fussnecker, Louis A.
 Gabel, Harold Edw.
 Gage, David L., 1
 Gaier, Donald Francis
 Gairing, Walter A.
 Galbraith, Barbara A., 1
 Galbraith, Harold H., 1

Gallagher, Thos. Earl
 Ganci, Jos. Anthony
 Gannon, John Wright
 Ganster, Betty Jean, 2
 Gantner, Clayton H., 1
 Garcia, Jos. Michael
 Garcia, Ramiro, Arturo
 Gardner, Chas. Clayton
 Garman, Richard
 Garringer, Lewis James
 Gates, John Allman
 Gavin, Geo. F.
 Gebele, Jos. D.
 Gebhart, Chas. J.
 Gedeon, John J., 1
 Gehring, Shirley Ann
 Geiger, John Leonard
 Gentile, Chas. J.
 George, Evelyn F.
 George, Robt. Francis
 Gerber, Roman Jos.
 Getter, Donald Arthur
 Gettier, Robt. Edw.
 Gibbs, Warren Gilbert
 Giglio, Peter J., 1
 Gilfoil, Richard Allen
 Gill, John Augustine
 Gillespie, Marguerite M.
 Gilliland, Merrill D.
 Gilmer, Geo. Edw.
 Gilmore, Hal Clarke
 Gilmore, Robt. W., 1
 Girard, Kathleen Mary
 Glaser, Ronald M.
 Gleason, James J.
 Glynn, Lawrence P.
 Goady, Miriam Mathilde, 2
 Goddard, Ingrid N., 1
 Goenner, Ronald Dale
 Goetz, Louis John
 Golden, Kenneth Edw.
 Golden, Thos B., 2
 Goodpaster, Robt. Norman
 Goodwin, Card Edw.
 Gordon, Donald L., 1
 Gorman, Jos. Michael
 Gorsuch, Evelyn M., 1
 Grafton, Jos. E., 1
 Graham, Charlie Lee, 2
 Graham, Donald Edw.
 Granato, Albert Jos.
 Green, Bill E., 1
 Green, Luther W.
 Greive, Donald Jos.
 Grier, Don Lewis, 2
 Griffin, Marilyn Jean
 Griffing, Ann B.
 Grigsby, Chas. Lee
 Grimme, Donald Edw.
 Groeber, Norbert Eugene
 Groeber, Richard F., 1
 Groselle, Francis Xavier
 Grosser, Leo Chas.
 Groth, Hildegard S.
 Grube, Harold Lee
 Guida, Chas. J.
 Gunckel, Jeannynne D'Arce

Gurnick, Gerard Edwin
 Hackett, Lawrence R., 1
 Haden, Wm. A., 1
 Hafner, Wm. Paul
 Hageman, Richard Eugene
 Hagerman, Samuel Edwin
 Haggerty, James Edw.
 Hahn, Dale Philip
 Haines, Michael Myers
 Hall, Constance L., 1
 Hallerman, Wm. E.
 Hamer, Jos. M., 1
 Hammond, Donald Paul
 Hannah, Robt. W., 2
 Hanneman, Douglas Alfred
 Hannon, James Peter
 Hansford, Paul I., 1
 Harbaugh, Nevaline G., 2
 Harding, Richard Frederick
 Harper, Jerome Dean, 2
 Harper, Rene
 Harrigan, John Michael, 2
 Harrigan, Thos. Francis
 Harris, Christopher Roy
 Harris, Clifford Wing
 Harris, Clyde
 Harris, John Dilworth
 Harris, Lowell E., 1
 Harris, Ramon Robt.
 Harrison, Melestine, 2
 Hart, James Patrick
 Hart, John P., 1
 Harter, John Jerome
 Hartigan, James Megarr
 Hartledge, Bernard Kenneth
 Hartman, Ronald Roland
 Hartnett, Marilyn, 2
 Hartsack, Jerome C.
 Hauer, Marilyn Ann
 Hauer, Mary Frances
 Haugen, Deroll Eugene
 Hayden, Jos. Jolly
 Hayden, Kenneth Ira
 Hayes, Elmer Dale, 2
 Hazen, Richard Ray
 Heberle, Gerald C.
 Heberle, Walter J.
 Heck, Edwin Eugene
 Heck, Robt. Frank
 Hecker, James, 1
 Hecker, Richard O.
 Heckman, Greta J.
 Hee, Edw. Francis
 Hee, Howard Y.
 Hegedus, Marjorie C.
 Heigel, Robt. Dale
 Heiman, Claire
 Heimkamp, Donald, 1
 Hein, Ted Fillmore
 Heindel, Harold J., 2
 Heisterman, Robt. L.
 Helmkamp, Donald G., 2
 Helmlinger, Louis R.
 Hemmelgarn, Carl N.
 Hemmert, Wanda Joann
 Henderson, Russell, 1

- Henige, Mary K.
 Hennessy, Frank P., 1
 Herdy, Jos. Roger
 Herman, Alfonso D.
 Herman, Joan E.
 Herman, John L.
 Hertzog, Eugene Paul
 Hertzog, John Arthur
 Hesler, Darrell Harry
 Hester, Glenn Dexter
 Hetzer, Herbert C., 1
 Hewitt, Richard Lee, 1
 Hickey, Gene Nelson
 Hickey, Robt. N.
 Hicks, Walter W.
 Hicks, Willa Mae
 Hieber, Dolores A., 2
 Hieber, Mary E.
 Hilbert, Wm. Francis
 Hilgeford, Charmaine Ruth
 Hill, Plato S., 1
 Hill, Robt. M., 1
 Hilton, Carol Ann
 Hinds, Hugh Richard
 Hoag, John R., 1
 Hobbs, Florence Sellers
 Hobbs, Reid Colin
 Hoberg, Chas. E., 2
 Hoberg, Paul F., 2
 Hoblit, Dennis Arlen
 Hoblit, Phyllis M.
 Hochwalt, Norman Chas.
 Hoebich, Edwin Francis
 Hoefler, Giles L.
 Hoelderle, Joanne M.
 Hoene, David Jos.
 Hoff, Robt. B., 1
 Hofferbert, Mary Ruth
 Hoffmann, Robt. John
 Hogenkamp, Nicholas A.
 Hohler, Nancy Catherine
 Hoke, Ronald Carl
 Holcomb, Patricia Anne
 Holmes, Harold Eugene
 Holsapple, Donald Ellis
 Holsinger, Edith Pear
 Holverstott, James C., 2
 Holycross, Robt. Bruce
 Hooper, Sanford P., 1
 Hopfengardner, Jerrold, 1
 Horan, John Francis
 Horvath, James Louis, 1
 Horvath, Julie Claire
 Horvath, Roy Thos.
 Hosket, Susanne Rosalie
 Hough, James LaVern
 Houston, Robt. B.
 Hovest, James Robt.
 Hovey, Wm. John
 Howard, Jos. Edw.
 Howard, Manuel Lee
 Howe, Jerry S.
 Howley, Marguerite Ann
 Hoying, Eugene John
 Hsiung, Yuh Hwa
 Huber, Arthur Jos.
 Huelsman, Robt. Arnold
 Huffman, Constance M.
 Huffman, Dwight G.
 Hughes, Clyde
 Hughes, Gerald Richard
 Hull, Cordell Wm.
 Hussman, Lawrence Eugene
 Hussong, Frederick Edw.
 Huston, Robt. Bailey
 Huth, James Alan
 Huth, Wm. Edw.
 Iannuzzi, Wm. Paul
 Igel, Thos. Michael, 1
 Illes, Louis Jos.
 Inclan, Roberto
 Inman, Paul Robt.
 Ireland, Frank Thompson
 Irizarry, Armando L., 1
 Isenecker, Mary Ann
 Jacobs, Carol Ann
 Jacobson, Patricia Ann
 Jaffe, Elaine P., 1
 Janney, James Harold
 Janning, John Taylor
 Janning, Robt. Jos.
 Janning, Thos. Bernard
 Janotta, Ralph John
 Jardine, Kathleen Ann
 Jarrell, Howard Raymond
 Jauch, Edw. Frank
 Jauch, Mary Elizabeth
 Jeffords, Chas. Frederick
 Jellison, Patricia Jane
 Jennings, Ralph Winthrop
 Jensen, Eileen Stenner
 Jindra, Leonard F., 1
 Jira, Elmer Paul
 Jira, Lee Paul
 Joefreda, Mary Catherine, 2
 Joefreda, Matthew E., 1
 John, Geo. Henry
 John, Jane C., 2
 Johnson, Alfred, 1
 Johnson, Geo. E.
 Johnson, Helen R.
 Johnson, James Clifford
 Johnson, Jessie, 2
 Johnson, Maurice Lee
 Johnson, Omer T.
 Johnson, Paul Robt.
 Johnson, Russell Lee
 Johnson, Sheila B., 1
 Johnson, Thalia W.
 Johnston, David M.
 Johnston, Lynn M.
 Jolliay, Robt., 2
 Jones, James Edw.
 Jones, Luanne Maria
 Jones, Shirley Dale
 Jones, Wallace Allen
 Joseph, Eugene Chas.
 Joseph, Thos. Eugene
 Jurena, Frank Chas.
 Jutte, Herbert F.
 Kadlec, Richard T., 1
 Kain, Todd Wm.
 Kaiser, Ada Louise
 Kaiser, Edw. Lewis
 Kalt, Thos. Alan
 Kamm, Irmin Otto
 Kannard, Edw. Lee
 Kapp, Phillip M.
 Karn, Donald Eugene
 Karns, Robt. E., 1
 Karnes, Jewell M.
 Kartavich, Francis V., 1
 Kastle, Patricia L.
 Kauffman, Diane M., 1
 Kauth, Chas. Manfred
 Kauth, Harold R.
 Kehl, Wm. Richard
 Keil, James Jos.
 Keith, Roger J. Horn
 Kelble, David Lawrence
 Kelley, John Edw.
 Kelley, Pauline Louise
 Kelly, Byron Jerome
 Kelly, Inez J., 2
 Kelly, Leonard W., 1
 Kelly, Paul M.
 Kempfer, Robt. J., 1
 Kendall, James J.
 Kennedy, Jewell L., 2
 Kent, Melville B.
 Keplinger, Harold W.
 Kern, Wolfgang
 Kester, Jack Edw.
 Kiely, John Matthew
 Kiener, Jerome Francis
 Kilbane, James Patrick
 Kilpe, Gunars
 Kindle, Jerold Frank
 King, Armetta
 King, Carl Dillon
 Kinsella, Mary Rita
 Kinsella, Patricia Ann
 Kinser, Wm. Chester
 Kiptyk, Nicholas A.
 Kirk, Thos. A., 1
 Kirkpatrick, Robt. M., 1
 Kirshe, Henry Alan
 Kirves, James Frederick
 Kissell, Wm. Fred
 Klam, Andy Edw.
 Klatt, Gerald Wm., 1
 Klaus, Francis Jos.
 Klemper, Dolores J., 1
 Klinepeter John Roger
 Kling, Jack Chas., 1
 Klunk, Thos. E., 1
 Knaggs, Hugh D.
 Knese, Mary Elizabeth, 2
 Knuth, Rae Lou
 Kobes, Donald Jerome
 Koehler, Carolyn Joanne
 Koehler, Jos. Robt., 2
 Koehler, Richard McDonnell
 Koehnen, Edw. L., 1
 Koerner, Ernest Lee
 Koester, Marilyn Catherine
 Koester, Hubert P., 1
 Koester, Raymond J.

Kohr, Donald Lee
 Kokkinou, Epiphania, 1
 Kolb, John Jos.
 Kolleda, Glenn Warner
 Konczal, Raymond E., 1
 Koontz, Chas. C.
 Kopp, Wm. D., 1
 Koren, Raymond Wm.
 Karns, Paul Eugene
 Kotlarek, Lawrence Anthony
 Koverman, Eugene Paul
 Koverman, John R.
 Koverman, John Vincent
 Krafmiller, Stephen Edw.
 Kraft, Robt. Lowell
 Kramer, Anthony Wilbur
 Kramer, Geo. Albert
 Kramer, Geo. Bernard
 Kramer, Roselyn
 Krebs, Jos. Henry
 Kreidler, Jacob Leonard
 Kreitzer, John Clarence
 Kreitzer, Robt. Dale
 Kress, Richard Phillip
 Kretzler, Carl Donald, 1
 Kroger, Jack Alvin
 Kronauge, Thos. Edw.
 Kronke, Chas. Henry
 Krueger, Louis Jos.
 Kuan, Pin Lin
 Kucharski, Leonard Jos.
 Kuhbender, Chas. Eugene
 Kundmueller, Arthur C.
 Kunka, Margaret Mary
 Kuntz, Richard Peter
 Kurfiss, Neal Tait
 Kwiatkowski, Jos. Drella

 Lachey, Kenneth L.
 Lackey, Barbara L.
 Lackey, Samuel Frank, 1
 Lafayette, Mary Louise
 Lafayette, Rolland Willie
 Lagedorst, Stanley Wm.
 Lalor, Richard Pierce
 Lambert, Rev. Clement J., S.M.
 Lancaster, Walter Vernon
 Landess, Richard Duane
 Landrigan, Patrick L., 1
 Langen, Allen Thos.
 Landsiedel, James A., 1
 Lapp, James Frederick
 Larkin, Thos. Jos.
 Lauber, James Norman
 Leary, Lynn Walter
 LeBoeuf, Viola M., 2
 Ledford, Frank F.
 Lee, Paul Matiland
 Lees, Thos. Potter
 Leese, Chas.
 Leese, Donald Albert
 Leese, Lawrence Edw.
 Lehmann, James Jos.
 Lehner, Robt. Helmuth
 Leider, Wm. John
 Leist, Richard Wm.
 Lemming, James Justin

Lennon, Jerome Francis
 Leong, Geo. Wah-Yick
 Leonard, Luke, 1
 Letterst, Frank Clemens
 Lewis, Ernest, 1
 Lewis, Frank
 Lickleder, Karl M.
 Lieberman, Jean K.
 Like, Leopold Wm.
 Lindemann, Thos. W.
 Lindon, Robt. Gerard
 Link, Chas. Milton
 Link, Sr. M. Jean Raphael, S.P.S.F.
 Link, Sr. M. Louise Agnes, S.P.S.F.
 Lisko, Robt. Wm.
 Liston, Marilyn Jeanne
 Litkowski, Paul Edw.
 Litten, Harold Pershing
 Little, Wm. Arthur
 Litzinger, Richard T.
 Locke, Thos. Jos.
 Lodge, Myron Burry, 1
 Loe, Wm. Peter
 Loeffler, Donald Lee
 Lohr, James Norman
 Lollis, David, 2
 Lombard, John A., 1
 Lonergan, Leo, 1
 Long, Franklin S.
 Long, Michael James
 Lorenz, James Edw.
 Losonsky, Sr. Rosalita, S.P.S.F.
 Lowden, Robt., 2
 Lowry, Edw. Grant
 Lowry, Geo. Wm.
 Loy, Richard Paul
 Luby, Patrick Jos.
 Lucas, Rev. Ernest, C.P.P.S., 1
 Lupica, Santo D., 2
 Luther, John Makley
 Luthman, Elmer Herman
 Lyons, Ann Elizabeth

McAdams, Mary Elizabeth
 McAvoy, Rosalie Marie
 McCaffery, James Richard
 McCarthy, Edwin, 1
 McClain, Sr. M. Joannilla, S.P.S.F.
 McClelland, John Steele
 McCloskey, Alfred Henry
 McClune, Wayne Robt.
 McClure, Geo., 1
 McCoy, James J.
 McCrum, Ronald Eugene
 McCullough, Merrill, 2
 McDonald, Mildred B.
 McDonald, Neil Richard
 McDonald, Wm. Gerard, 1
 McDonough, Kenneth Mark
 McFall, Paul, 1
 McGarvey, Shirley Ann
 McGonigal, Geo.
 McGovern, Frederick J.
 McGrath, Richard Jos.
 McGraw, James Earl
 McHenry, David Wesley
 McIntire, Jane, 1

McKenna, Raymond Arthur,
 McKinniss, Owen Jos.
 McKnight, Jeff D.
 McMillan, Joe Clint
 McNamara, Donald Eugene
 McQuillan, Roy Bernard, 2
 McReynolds, Ronald Weidon
 McShane, Martha Ann

Maas, Cecelia H.
 Mabra, Donald, 1
 MacCallum, Sandra Kay
 Mackey, Paul Jos.
 MacLardie, John Alfred, 2
 Madden, James Robt.
 Magat, Edmund
 Maher, Michael, 1
 Mahle, Edw. Lawrence
 Mahle, John Louis
 Mahlmeister, Suzanne Helen
 Mahne, Donald Anthony
 Maieresperger, Evelyn L.
 Malloy, Vincent Cornelius
 Malloy, Jos. James
 Malloy, Paul Jos.
 Maloney, Edw. Patrick
 Mals, Chester Stanley
 Mandel, Cornelius Edw.
 Manning, James Forrest, 2
 Manny, Edw. Phillip
 Marcum Douglas Larue
 Marcum, Mary Alice, 1
 Marcum, Olive E. Riggs
 Marin, Anibal M.
 Maroglou, Kate K.
 Marshall, James Edw.
 Marshall, Robt., 1
 Marsico, Francis Paul
 Martin, Jack Emil
 Martin, James, 1
 Martin, James Jos.
 Martin, Lloyd Powell
 Martino, Armand Anthony
 Mason, Robt. Lee
 Massey, Pat Harrison, 2
 Masterson, Terrence Alan
 Mattingly, John Thos.
 Mauch, Eugene E.
 Maurer, Donald Jos.
 Maurer, Thos. Wm.
 Maxwell, Christian Dotse
 Mayer, Robt. Chas.
 Meacham, Armond Sherman
 Meacham, Robt. Bruce
 Medina, Eugenio Frederico
 Mahary, John Warren
 Meier, Milton Herman, 2
 Meineke, Donald Edw.
 Meiring, Daniel Edmund
 Melvin, Francis Bernard
 Melvin, James Michael
 Mendez, Hector
 Mergler, Carolyn S.
 Merriam, Floyd F., 2
 Mershad, Edmund M.
 Mershad, Emil Anthony
 Mertens, Wm. Jerald

Mescher, Carl Jos.
 Mestwerdt, Gisela Martha
 Metzger, James Anthony
 Meyer, Dennis Bernard
 Meyer, James M.
 Meyer, Thos. C., 1
 Michael, Russell Joe
 Mickley, Richard R.
 Millat, Robt. E., 1
 Miller, Cletus John
 Miller, Dale Reed
 Miller, David Daniel
 Miller, Donald Chas.
 Miller, E. Lucille
 Miller, E. Virginia
 Miller, Eugene Edw.
 Miller, Frederick J.
 Miller, Hugh Rowland
 Miller, Lois H.
 Miller, Ralph Wm.
 Miller, Richard Eugene
 Miller, Richard Leroy
 Mills, Geo. Anthony
 Minaugh, Mary Eileen, 1
 Minic, Mary Helen
 Minnich, Retha L., 2
 Misiewicz, Robt. Jos.
 Mitchell, Geo. W., 1
 Mitchell, Wm. Andrew, 1
 Miyata, Richard Y.
 Mocilnikar, Phillip E.
 Mock, Guy Elder
 Moeder, Jos. Aloysius
 Monastra, Gene Wm.
 Monnig, Thos. Edw.
 Montgomery, Richard Leo
 Montgomery, Robt. A.
 Moore, Gerald Emerson, 1
 Moore, Jeanne Marie
 Moore, Joan Marie
 Moore, Paul Eugene
 Moore, Richard Ernest
 Moore, Wm. Bernard, 1
 Moore, Willis
 Moorman, Cletus Aloysius
 Moorman, Eugene Frank
 Moorman, Robt. Geo.
 Morasco, Bernadine Ann, 1
 Moreau, Adele T.
 Morehart, Freda Roberta
 Morgan, Lawrence Walton
 Morrell, Norman Jean
 Morris, Frederick Michael
 Morris, Gerald Eugene
 Morris, James Robt.
 Morse, Billy Kezerta
 Morton, Chas. A.
 Mosconi, Jos. Vincent
 Moses, Raymond, 1
 Mosher, Wm. Edw.
 Moy, Robt. Stanley
 Moyer, Ted A.
 Mudd, Jos. B.
 Mueller, Catherine Elizabeth
 Mueller, James Carl
 Mulanovich, Eduardo
 Muldoon, John Patrick

Mullen, Thos. Eugene
 Mulligan, John Jos.
 Munhall, Eleanore Gill, 2
 Munn, Karen Druscilla
 Murphy, Betty Lee
 Murphy, Gordon J.
 Murphy, John Theodore
 Murray, Donald E.
 Murray, Edw. Paul
 Murray, Gerald Patrick
 Murray, Richard Jos.
 Murray, Walter James
 Muth, Eugene Robt.
 Muth, Thos. Lee
 Muzi, Tutus Jos.

Naas, Jack Allan, 1
 Nagle, Daniel Anthony
 Nagle, Mary Ellen
 Nahn, Chas. Edw.
 Nahn, Mary Carolyn
 Nanni, Vincent
 Nash, Robt. Eugene
 Naughton, James Wm., 1
 Needham, Lois Jean
 Neil, Chas. R.
 Nellis, Raymond E.
 Nelson, Jos. Leon
 Nelson, Peter Vincent
 Newbauer, Barbara, 1
 Nicholson, Earl H.
 Nicolay, Claude, 1
 Nieman, Beverly Joan
 Niemann, Jos. Bernard
 Niles, Curtis Eugene, 1
 Noguchi, Albert Kingo
 Noll, Chas. Henry
 Nolting, John Leo
 Noonan, Robt. Vaughn
 Norris, Joan Marie
 Norris, Leland Vincent
 Norris, Ray Lester
 Nourot, Richard Davis
 Nutt, Donald A.
 Nyberg, Chester John, 2
 Nyberg, Chester, 1
 Nyhan, James Edw.
 Nyhan, Thos. Childers

Oberst, Cletus Edw.
 O'Boyle, Frank Jos.
 O'Brien, Walter Daniel
 O'Bryan, Rex Howard, 1
 O'Connell, Gerald Francis
 O'Connell, James Lawrence
 O'Connell, Thos. David
 O'Connor, James Earl
 O'Connor, Raymond J.
 O'Donnell, John T., 1
 Offenbacher, Geo. E., 1
 Office, Sarah L., 1
 O'Grady, Michael Jos., 1
 OHara, Yoshiharu
 Ohmer, Paul Pius
 Okamura, Harold Masao
 Okita, Harold Kazuto

Olberding, Thos. Anthony
 Oldiges, Margaret Joan
 Olsen, Thos. Anthony
 O'Malley, Geo. Chas.
 Omlor, Gene Paul
 O'Neil, John Wm.
 O'Neill, Aloysius Louis
 O'Neill, Wm. Sharp
 O'Neill, Winfield Anthony
 Oppenheim, Karl Justin
 Ormes, Esther Joyce, 2
 Ohio, Geo. T., 1
 Osselaer, Thos. Francis, 1
 Osterday, Joanne M.
 Osterday, Robt. Louis
 Osterman, Thos. Jos.
 Osweiler, Elizabeth Anne
 Osweiler, Paul Jos.
 Otto, David Lawrence
 Ousley, Thos. Russel
 Overholser, Wm. S.
 Overly, Howard Earl
 Owen, Marion Frances

Page, Thos. Frederick
 Pahl, Robt. Herman, 1
 Palmer, Raymond Sloan
 Pang, Howard K. Sing
 Pank, Harry Robt.
 Panos, Maesimund B.
 Paradise, Frank Wm.
 Parker, Fearl M., 2
 Parker, James Robt.
 Parrino, Gasper
 Passalacqua, Leonard N., 1
 Patesel, Richard Edw.
 Paton, Wm. Taylor, 1
 Patton, Eugene Merdell
 Paul, Dale Arden
 Paul, Vincent James
 Paulick, Richard Edw.
 Paullin, Florence Virginia
 Pax, Alfred Constantine
 Paxson, James Edw.
 Payne, Barbara Jean
 Payne, Donald, 1
 Payne, Sally Ann
 Peckolt, Kay Ann
 Pedicord, Lawrence Chas.
 Peebles, Melestine, 1
 Pellow, Genevieve Audrey
 Penick, Mattie Lou
 Penn, Raymond H., 2
 Perez, Armando Garcilaso
 Perkins, Thos., 1
 Perotti, Edw. John
 Perry, Anna Mae
 Perry, Geo. Wm.
 Peters, Carroll Eugene
 Peters, Daniel J., 2
 Peters, LeRoy Wm.
 Peters, Paul Nicholas
 Peterson, Carl Thos.
 Peterson, Robt. Louis
 Peth, Mark Anthony
 Petkowitz, Paul Edw.
 Pfeiffer, David Lawrence

- Pfeiffer, John Jos.
 Pfeiffer, Russell Jos.
 Pfister, Georg Edmund
 Pfäum, Julie Marie
 Pfum, Russell Kenneth
 Pfordresher, Richard, 1
 Phipps, Aaron Chas., 2
 Pierce, Donald Lee
 Pierce, James, 1
 Piskura, James, 1
 Plaut, Erika Salzburg
 Pleiman, Paul H., 2
 Poelking, James Edw.
 Poepelman, Wm. Albert
 Pohl, Donald Steve, 2
 Pohlman, Wm.
 Polley, Thos. E., 2
 Polson, Frances Wright
 Ponce, Edw., 1
 Ponder, Ervin
 Poock, Doyle G., 1
 Poore, Ted R., 1
 Porter, James Wm.
 Porter, Jean Paeppl, 1
 Possert, Markus, 1
 Potter, Wm. G.
 Powles, Geo. Hamilton
 Prater, Harold, 1
 Press, Peter
 Price, Chas. S.
 Price, Samuel J., 2
 Prince, Jos. A., 1
 Prosser, John P.
 Pruzzo, John Louis
 Pustinger, John Vincent
 Pyne, James Thos.

 Quedewelt, Louis
 Quinlan, Owen Michael
 Quinones, Pedro

 Radican, Henry Thos.
 Radican, Patricia Ellen
 Rafols, Edwin
 Raiff, James Herman
 Ramos, Hector Jose, 1
 Ramsey, Patricia Ann
 Rancont, Ted Jos.
 Raney, Julie Ann
 Rannes, Frederic James
 Ransick, Jean C.
 Ransom, Patricia Ann, 2
 Rataiczak, Francis Richard
 Rauch, Irmengard Paula
 Rauscher, Rosemarie Elizabeth
 Rawicz, Andrew Peter
 Rawlins, Albert R.
 Razzano, Frank A.
 Reardon, Jos. Eugene
 Reboulet, Richard Eugene
 Recker, Robt. Bernard
 Recker, Robt. Carl
 Redinger, Earl Burdett
 Redmond, John Edw.
 Reed, Donald Patrick
 Reed, Tommy Besom
 Reeve, John Brunner
 Regan, Paul Clarence

 Rehs, Ferdinand Peter
 Reich, Nathaniel Krauth
 Reichard, Thos. Eugene, 1
 Reichert, Donald Henry
 Reid, Alonzo
 Reidy, Edw. James
 Reilly, Maurice S., 1
 Reisch, John Louis
 Retter, John A.
 Reyes, Manuel
 Reynolds, Barbara Jean, 1
 Reynolds, Geo. Harvey
 Rhines, Bill Newman
 Rhoades, Otis Carleton
 Rice, Donald Warren
 Rice, Eugene Edw.
 Rice, Jack Austin
 Rich, James E., 2
 Rich, Rodney Allen, 1
 Richard, John Clarence, 1
 Richards Stanley G., 1
 Riedinger, John Ambrose, 1
 Riedy, Richard Victor
 Rieger, Wm. Jos.
 Riesbeck, Chas. Peter
 Rigo, Donald Wm., 1
 Riley, John Edw.
 Riley, Robt. Henry
 Rindler, Aloys, 1
 Rindhardt, Louis, 1
 Ringleman, Clarence Leo
 Ringo, Phyllis Emma
 Ritz, John Philip
 Ritz, Karl Clifford
 Ritzler, Geo., 1
 Roberts, James Harold
 Roberts, Shearl Jos.
 Roberts, Wm., 1
 Roberts, Wm. Roy
 Robertson, John, 1
 Roccanova, Peter Frank
 Roderer, Raymond H.
 Roesch, Chas. Hubert
 Rohr, Thos. Edw.
 Romer, Elizabeth Alberta
 Romer, Thelma Mae
 Root, Lloyd W.
 Rose, Elizabeth Jean
 Rose, Wm., 1
 Roski, James Bernard
 Ross, Herbert Marshall
 Ross, Jos. Paul
 Rossi, John Sam
 Roth, Geo. Jos.
 Roush, Jack Bennett
 Rowe, Geo. Dean
 Rozzo, Carmen John
 Rudokas, Peter Paul
 Rudolph, Ronald Francis
 Rueger, Wm., 1
 Ruetschle, Chas. E., 2
 Runkel, Augustine, 1
 Russell Patricia Lee
 Ruskowski, Henry Alexander
 Ruth, John Patrick
 Rutledge, Richard, 1
 Ryan, Jos. Patrick

 Ryan, Ralph Thos.
 Ryan, Ronald Wm.
 Ryschkewitsch, Geo. E.

 Sacksteder, Corda Frances
 Sacksteder, Raymond Jos.
 Sage, Redmond, 1
 Saide, Jose, 1
 Sallee, Jack Walter
 Salvati, David Thos.
 Sampson, Plumer
 Sanderson, Maryann, 1
 Sandlin, Margie Louise
 Sandy, Robt.
 Sasala, James Stephen
 Scalia, Peter Chas.
 Scalzitti, Carmine James
 Schaaf, Jerome A.
 Schaefer, Catherine, 1
 Schaefer, Chas. Jos.
 Schamel, Eugene Theodore
 Schick, Sr. A. Lucille, S.N.D., 2
 Schierloh, Richard James
 Schimanski, Wm. Henry
 Schiml, Bernard Louis
 Schimmoller, Donald James
 Schlipp, Carl Eugene
 Schmall, Robt. Anthony
 Schmelzer, Chas. D., 1
 Schmid, Robt. Albert
 Schmidt, Rosemary Estelle
 Schmitz, Francis Henry
 Schneider, Carolus A., 1
 Schneider, Wm. Eugene
 Schoch, Jean Marilyn
 Schommer, Gary Lee
 Schorsch, Patricia Cecilia
 Schroeder, Jos. Kevin
 Schroeter, Robt. Huber
 Schroll, Shirley Rae
 Schubert, Francis Jos.
 Schuler, Walter Richard
 Schultz, Frank M., 2
 Schutz, Rudolph Edwin
 Schwab, Margaret M., 2
 Schwartz, James N.
 Schwegman, Benjamin LeRoy
 Schweller, Donald Geo.
 Scott, Russell Walter
 Scribner, Wm. G., 1
 Scurlock, Donald Ivan
 Sears, Gordon Edw.
 Seidel, John
 Seifert, Donald Nicholas
 Seifert, Robt. Lee
 Seiler, Frank Jos.
 Seitz, John Michael, 2
 Sennet, Fred James, 2
 Senter, Richard Lee
 Setser, Alvie L., 2
 Setser, Clarence Ralph
 Settlemier, Phyllis A.
 Sewell, Albert R.
 Sewell, Mary Catherine
 Shafor, James Jos.
 Shahan, Earl E.
 Shank, Robt. E.

- Shattock, Berteli Stelzer
 Shay, Frances A.
 Shay, Paula Monica
 Shear, John J.
 Sheetz, Martha Carol
 Sheffield, Russell J.
 Shell, Joyce Ann, 1
 Sheller, John Richard
 Shellhammer, James Robt, 1
 Shelton, Earl Eugene
 Shepherd, Lois Marie
 Sheridan, Chas. L.
 Sherman, Helen L.
 Sherman, Jos. Richard
 Sherman, Patricia Lucille
 Sherrer, Richard P., 1
 Sherwat, Elsie Lieberman
 Shields, Doris Irene
 Shively, Lawrence Alvin
 Shively, Mary Louella
 Shleier, Raymond A.
 Shollenbarger, David Earl
 Shoup, Philip Becker
 Shroyer, Robt. James
 Sibold, Geo., 1
 Sibold, John, 1
 Siggins, Frank Michael
 Sikes, Stephen Vekkerdy
 Silverii, Louis Wm.
 Simpson, Carole, 1
 Simpson, Chas. Jos.
 Simpson, Jesse
 Simpson, Thos. Ingram
 Sine, Franklin Earl, 1
 Sink, Virginia, 1
 Siu, Leonard
 Smalley, Maurice
 Smartt, Earl, 1
 Smith, Adelbert V.
 Smith, David Rose
 Smith, Donald Eugene
 Smith, Dwayne Gaynor
 Smith, Evelyn Otillia
 Smith, Gene Edwin
 Smith, Geo. Mayo
 Smith, Harry James
 Smith, Jane Eleanora
 Smith, Kenneth Paul
 Smith, Lawrence Vincent
 Smith, Lloyd Andrew
 Smith, Lynda
 Smith, Mark Jos.
 Smith, Michael Thos.
 Smith, Richard Auer
 Smith, Robt. Andrew
 Smith, Stephen Hackett
 Smolinski, Geo. F.
 Snider, Clarence Robt.
 Snyder, Dennis Orville
 Snyder, Gilbert D.
 Snyder, Robt. Clark
 Solamillo, Estanislao M.
 Sommers, Neil Adams
 Soo, Juanita Kam-Hau
 Soong, Tsu-Teh
 Sorohan, Lawrence Jos.
 Spahn, Gerald, 1
 Spahn, Thos., 1
 Spahr, Earle, 1
 Spakowski, Paul Walter
 Sparks, Jackson Marchant
 Spatafore, Chas. James
 Spatz, Wilbur Jos.
 Spears, Bruce Geo.
 Spencer, Dale Fisher
 Spieler, Raymond, 1
 Spiers, Gerald Herbert
 Spillan, Edw., 1
 Spindler, Chas. Wm., 2
 Spoerl, James Arnold
 Sponsler, Don Edw.
 Spraley, Alvin Jos.
 Stabler, James Thos.
 Staley, Thos. A., 1
 Staley, Wm. J.
 Stamas, Iris James
 Stanch, John Michael
 Stang, Marguerite Helen
 Stansel, Sidney Hayes
 Stansell, Marion Jerome
 Stapleton, John
 Stapp, Chas. Junius
 Stark, John Leo
 Steck, June Ann, 1
 Stefancik, Adam Daniel
 Stein, Arnold
 Stein, Thos. J., 2
 Steinbach, Bernard Leo
 Stelzer, Paula Marie
 Stemley, Donald W., 2
 Stephens, Thos. Irvin
 Stetson, Janette Worster
 Stevens, Sandra Lou
 Stevens, Wm. H., 1
 Stewart, Stephen Knaul, 2
 Stith, Raymond Jos.
 Stittgen, Carol Joyce
 Stockert, Jos. John
 Stoeklein, Carol Jean
 Stoeklein, Jos. D.
 Stoeklein, Virginia, 1
 Stokes, Robt. Edw.
 Stolla, Edw. Eugene, 2
 Stout, Margie Ann
 Strack, Kenneth E., 2
 Striebel, James Louis
 Strominger, Leo Edw.
 Strominger, Rebecca Maude
 Strubczewski, Walter
 Strube, Edw. W., 1
 Studebaker, Robt. Lee
 Sucl, Arthur Wendell
 Suhr, Carl John, 1
 Sullivan, Mary Catherine
 Sulzer, Robt. David
 Sumner, Wm. Russell
 Supcoe, Donald Chas.
 Susco, Eugene Christy
 Swanton, Thos. James
 Swayne, Dale Edw.
 Sweeney, Timothy Morrow
 Sweetman, Russell Eugene
 Swick, John E., 1
 Switzer, David T., 2
 Switzer, Delta
 Szabo Lillian Lydia
 Talbot, Wm. John
 Tanaka, Karen Harue
 Tangeman, Francis Wm.
 Tangeman, Jacqueline Marie
 Tangeman, Richard
 Tangeman, Robt. Louis
 Tanimura, Samuel Kenji
 Tannehill, Flionne Ward (Mrs.)
 Tate, Edw. Francis
 Tate, Virginia B.
 Taylor, Gloria Lee
 Taylor Norman Ross
 Taylor, Robt. Gilbert
 Taylor, Vaughn Kemp
 Tempest, June Claire
 Templin, John Francis
 Termini, Marlo Michael, 1
 Theodoras, Basil Wm.
 Theodoras, Mary Louise
 Theodorides, Thales A.
 Theising, Mary Paula
 Theuring, Wm. Andrew
 Thoma, Thos. Anthony
 Thomas, John Chas., 1
 Thomas, Logan
 Thomas, Richard Francis
 Thomas, Vernon Eugene
 Thomas, Wm. Victor
 Thome, Wm. Leonard
 Thompson, James Richard
 Thompson, Robt. Eugene
 Thomson, David Wm.
 Thornton, Samuel M.
 Thornton, Wanda E.
 Thunborg, Siegfried
 Tieman, James Vincent
 Tierney, Jos. Bourne
 Tillingier, Robt. David
 Tilson, Lester C.
 Tobias, Kenneth Lee
 Topp, Hannelore
 Toth, Thos. Edw.
 Trevino, Guillermo Jesus
 Trevino, Jose A.
 Trick, Robt. Chas.
 Trigg, John, 2
 Trimbach, Gerald Edw.
 Trismen, David Lester
 Trivison, Jos. Nicholas
 Troin, Henri Jean, 1
 Trucano, Guy Leo, 1
 Trzeciak, Chester W.
 Tsarones, James, 2
 Tsu-yin, Soong, 2
 Tucker, Shirley Rudolph, 1
 Tumbusch, James Jos.
 Tuohy, John Patrick
 Turner, Evangeline A., 2
 Turner, Fred Allen
 Tylinski, Adolf Stanley
 Uhl, Wm., 2
 Uhlenhake, David J.
 Umina, Betty Ann

- Unger, Elmer
 Unger, John L.
 Utz, Ann Elizabeth

 Valerin, Arnoldo A.
 Valiukas, Leonard A.
 Vallo, John R., 1
 Vance, Ronald D., 1
 Vandevander, Robt. Horace
 VandeVelde, Harry J., 1
 Vannorsdall, James Wedell
 VanSchaik, Geo. John
 VanSkyhawk, Hugh C., 2
 Varadalides, Tula
 Vauls, Thelma A., 2
 Veda, Edw. Peter
 Veda, Jos.
 Ventura, Samuel U.
 Vergamini, Paul Lewis
 Verrett, Earl Francis
 Vicario, Jos. S.
 Victorino, Bernard Stephen
 Viel, Daniel Richard
 Villemain, Herbert Francis
 Villemain, John Wm.
 Vincke, John Jos.
 Vinson, Vivian, 1
 Vocke, Robt. J.
 Voelkl, Dorothy Elaine, 1
 Voglewede, James Jos.
 Vogt, Thos. Edw.
 Vogue, Larry Leon
 Volk, Thos. Lewis
 Volker, Sr. M. Edward, S.P.S.F.
 VonMohr, Jerome A.
 Voss, Larry Robt.
 Vradelis, Cleo, 2
 Vukelich, John Jos.

 Wack, Raymond
 Wack, Regina Leon
 Wagner, John Reginald
 Wagner, Lester Frank
 Walker, Jane Cloudsley
 Walker, Una
 Wall, Barbara Ann
 Wall, Lester E.
 Wallace, Vera, 1
 Wallingsford, John Franklin
 Wallingsford, Patricia Anne
 Walsh, James Edw.
 Walsh, Robt. Henry
 Walters, Chas. Frederick
 Walton, Percy Allen, 1
 Wamsley, Cecil Donald
 Wannemacher, James Paul
 Wannemacher, Melvin Earl
 Ward, Dorothy Heinz, 1
 Warning, Donald Wm.
 Warning, Gene Casper
 Warren, Helen
 Warsocki, David Robt., 2

 Weaver, Calvin D.
 Weaver, Paul Jacob
 Weber, Norman, 1
 Weber, Vernon Emil
 Weeber, Richard Henry
 Weeks, Elvin, 1
 Weger, James Anthony
 Wehner, Carol Ann
 Wehner, Edw. Henry
 Wei, Michael T. K.
 Weider, Richard Eldean
 Weidner, Richard Eugene
 Weiher, Ronald Geo.
 Weiler, Chas. Louis
 Weinsbank, Jerry Neil
 Weinstein, Joshua
 Welbaum, Gary Ronald
 Welks, Donald Nicholas
 Wendall, Sr. M. Marguerite,
 C.PPS.
 Wenrick, Edna Mae
 Wenstrup, Kenneth Paul
 Werl, Vincent Anthony
 Werner, Jos. Gerald
 Wess, Paul D., 2
 Westendorf, Robt. J.
 Westerkamp, Thos., 1
 Wheatley, Wanda, 1
 Wheelersburg, Carl P.
 Whisler, Beverly Jean
 White, Tedford Robt.
 White, Thos. Allen
 Whitehair, Elton Dale
 Whitmer, Richard Lee
 Wiedemann, Ernest H.
 Wiggenghorn, Richard G.
 Wiles, Lawrence Arthur
 Wilkerson, Cortez L.
 Wilkerson, James Edw.
 Will, Earl Huber
 Williams, Alex C.
 Williams, Bertie Mae
 Williams, Earl Roy
 Williams, John Vincent
 Willis, Richard Francis
 Willkomm, Ronald Chas.
 Willoughby, Russell Howard
 Wilson, Chas. E.
 Wilson, Eugenia E.
 Wilson, Jack Curtis
 Wilson, James
 Wilson, Mary Allen, 1
 Wilvert, Ruth Bentley
 Wimsatt, Thos. Kyle
 Wion, Robt. Keith
 Wirth, James Eugene
 Wise, Robt. Lee
 Wissing, Richard Donald
 Witt, Richard Jos.
 Witte, Roger Bernard
 Wittig, Wm. Peter
 Wittmann, Rita Ann

 Wojcik, Ronald Jos.
 Wolf, Nelson David
 Wolf, Paul Anthony
 Wolfe, Clifford Eugene
 Wolfe, Deith Vincent, 1
 Wolfer, Edw. J.
 Wolff, Donald, 1
 Wood, Robt. Foster
 Woodford, Wm. Perry
 Woodward, Geo., 1
 Woolley, Kenneth Robt.
 Worthington, Fred Donald
 Woywood, Geo. Martin
 Wright, Chas. Andrew
 Wright, Hubert Wayne, 2
 Wright, Robt. Ellwood, 1
 Wright, Robt. Eugene
 Wright, Sanford Leon, 1
 Wyen, Mary E., 2
 Wymer, Jack Donald
 Wyrstek, Thaddeus Stanley

 Yamada, Thos. Shoji
 Yamamoto, Patrick Seiji, 2
 Yanes, Manuel Antonio
 Yarnell, Martin, 1
 Yates, Myrtle Frances
 Yates, Nanci Stuart
 Yatros, John E., 1
 Yeazell, Robt. Wm., 1
 Yeck, Willa S., 1
 Yemec, Edmund John
 Yike, Wm. Jos.
 Yim, Henry H. L.
 Yontz, Jerry Thos.
 York, Gerald Patrick
 Young, David Jos.
 Young, David Arthur
 Younger, Robt. J., 1
 Younman, Constance Marie
 Youngman, Martha Ellen
 Yuen, Edwina Hong Jen

 Zaenglein, Wm. C.
 Zaidain, Sam Paul
 Zamorski, Daniel Michael
 Zane, Vivian
 Zanon, Raymond
 Zbydniewski, Leonard, 1
 Zelik, Stephen Francis
 Zeller, Maureen Phyllis
 Zepernick, James Lewis
 Zimmer, Chas. Edw.
 Zimmer, Warren J.
 Zimmerman, Leland Harold
 Zimmerman, John Albert
 Zolg, Jack Milton, 2
 Zolg, Otto John
 Zuback, Melvin, 1
 Zulli, Andrew W.
 Zumbink, Sally L., 2
 Zummo, Jos. John

SOCIETY OF MARY

Aaron, Philip T.
 Abel, James H.

Annunziata, Carmine T.
 Annunziata, Frank N.

Bahr, Fred J.
 Behringer, Wm. R.

Bradley, Donald W.	Koller, Paul R.	Pleiman, Bernard, 1
Bruggeman, Thos. J.	Korb, Marc E.	Quinn, Paul F.
Canty, Bernard J.	Kraeter, Harry J.	Rauscher, Edwin H.
Chang, Leonard C. H.	Kretz, Leon T.	Rauscher, Martin J.
Chapman, Wm. H.	Kunes, James F.	Ray, John J.
Conrad, David L.	Lemker, John R.	Roche, James L.
DaSilva, Jorge E.	Locke, Robt. B.	Rossmann, Chas. L.
Duffy, Richard E.	Loehrlein, Richard A.	Samaha, John M.
Duscheid, Donald J.	Lucas, James A.	Sartor, Walter W.
Eid, Leroy V.	McDonald, Jos. S.	Schmitz, David L.
Foley, Donald E.	McMunigal, Eugene Jos.	Schoen, Thos.
Gaskill, Donald A.	McQuade, Raymond F., 2	Sheehan, John Jos.
Gausling, Chas. J.	Marino, Mario S.	Sheridan, James J.
Gausling, Richard H.	Maushart, Edw.	Shields, Jos. F.
Geraghty, Richard P.	Miklich, Raymond	Sprenger, Alan M., 1
Hamilton, Robt. M.	Miller, Clyde H.	Stupka, Daniel R.
Hance, Patrick J.	Modica, Frank T.	Sullivan, John J.
Hano, Wm.	Molchen, Kenneth J.	Szelong, Jerome J.
Hockwalt, Robt., 1	Moock, Daniel J.	Tonry, John E.
Hoganson, Hubert C.	Neff, Donald E.	Ubinger, Paul A.
Hughes, Robt. E., 2	Neuherz, John A.	Wentker, Carrol J.
Ipsaro, Anthony J.	Nove, Jos. E.	Widmer, Firmin G.
Johns, Robt. J.	Nures, Robt. J.	Wolan, James
Kammerer, Ernest R.	Paolozzi, Jos. L.	
Keating, Richard J.	Pirchner, Richard J., 2	

CARTHAGENA DIVISION

Adelman, Norbert G.	Joyce, Edw. J.	O'Dell, Aloysius F.
Beccquet, Paul L.	Kelaf, Richard J.	Ranly, Ernest W.
Beischel, Richard L.	Kilo, Jos. A.	Schrader, James H.
Conway, Thos. Anthony	Kunisch, Robt. C.	Schultheis, Raymond H.
DeBrosse, Thos. J.	Lazur, Jos. E.	Sebastiani, Jos. A.
Dugal, James H.	Lovett, Richard M.	
Fullenkamp, Leo J.	McKay, John J.	

EVENING CLASSES

September 24, 1951—June 7, 1952

The numeral "1" after a name indicates attendance during the first semester only; the numeral "2" indicates attendance during the second semester only; no numeral indicates attendance during both semesters.

Aberle, Harry T.	Alexander, Robt. L., 1	Anderson, Richard K., 1
Abrams, Geo. D.	Allaback, Stanley E., 1	Andreas, V. Ruth, 2
Adams, Gerald O.	Allen, Esther H., 2	Andrews, Marjorie J.
Adams, Kathryn, W., 2	Allen, Marjorie G., 2	Angeletti, Chas. R., Pfc.
Adams, Marion H.	Aller, Iva Lou, 1	Angell, Chas. R. J., Lt. (USN), 2
Adams, R. A.	Allinikov, Beatrice, 2	Angoff, Louis
Afendoules, Michael	Allinikov, Sidney, 2	Anthony, Harold J., 1
Agnew, Dorothy E., 2	Allison, Robt. D., 1	Anttila, Mae L., 1
Ahrendt, Vernon L.	Alloy, Seymour	Apperson, Richard D., 2
Ahrendt, Wm. H.	Allred, Willis K., 1	Armentrout, Everett C.
Aiello, Patricia J.	Alt, Beatrice, A., 1	Arnett, Carl A.
Aikman, Ruth A., 1	Amann, Paul J.	Arnett, Gertrude
Akers, Clyde W.	Amass, Jesse	Arnett, Marvin, 2
Akers, Wm. C.	Amato, Rose, 1	Arthur, Wm. J., 1
Albrecht, Richard L.	Ambrose, Katherine A., 1	Asbury, Mary H., 1
Albright, Dewey, E., 1	Ammerman, Mildred S.	Ashbrook, Doyle, 2
Alessandro, Lawrence P.	Amos, Wm. J.	Ashby, Robert C.
Alex, Manue, 1	Anderson, Elizabeth, A., 2	Ashenfelter, Robt. L.
Alexander, Louella F., Cpl.	Anderson, James W.	Ashworth, Mary A., 2

- Aubrey, Jos. D.
 Aufderheide, Maurice B., 2
 Augustyn, Frank J., 2
 Ausenbaugh, Glenn, F., 1
 Austen, Pat, 1

 Back, Tilden, R.
 Bagby, Malcolm A.
 Bailey, Douglas J., 1
 Bainter, Willard E., 2
 Baird, Mervin E., 1
 Baird, Wm. W.
 Bakalus, Jos.
 Baker, Edger E., 1
 Baker, Roger
 Baldassar, Madelon M., 2
 Baldwin, Richard A., Capt., 2
 Ballentine, Oliver M.
 Barbee, Robt. E.
 Barbour, M. Wayne
 Barley, Grace N.
 Barlow, Jeannette, 1
 Barlow, Wilma Jean, 1
 Barnes, Carl W., 1
 Barnett, Rose E., 1
 Barnett, Van C.
 Barnhart, Donald M.
 Barrar, Allan, 2
 Bartzak, Simon P.
 Bartlett, June E., 2
 Bartlett, Lorraine D., 2
 Bartoszek, Robt. W.
 Baston, John W., Cpl., 2
 Battenberg, Virgil B.
 Baumann, Gordon H., 1
 Baumgart, Dieter R.
 Baumhardt, Richard E., 1
 Bayer, Bernard J., 1
 Baylous, Flossie, 1
 Beaver, Ralph H., 1
 Beaver, Russell H., 2
 Beck, Paul E.
 Becker, Louis M.
 Becker, Werner, J., 2
 Beggs, Eugene, S., 1
 Behm, Harold N.
 Belcher Johnnie L.
 Belger, Hugh E., 1
 Bell, Christine, F., 1
 Belov, Catherine S., Sgt., 2
 Bender, Chas. S., 1
 Benford, Daniel P.
 Benner, Tom J., 2
 Bennett, Norma, W., 2
 Bennett, Wilma A., 1
 Bensinger, Hester A.
 Bensinger, Hester D.
 Bensman, Ruth C.
 Benson, Phillip W.
 Bergedick, Robt. A.
 Berger, Henriette M., 1
 Berkey, John F., 1
 Bernard, Albert F., 1
 Bernard, Chas. W.
 Berner, Alverna L., 1
 Bernyk, Geo. S., 1
 Berry, Duane A., 1

 Berry, Wm. H.
 Besnecker, Leonard H., 2
 Bethel, Daniel R.
 Beveridge, Jack R., T/Sgt., 2
 Beverley, Emma L., 2
 Biagini, Arthur T.
 Bielstein, Hans O.
 Biggs, Thos. K., 1
 Billett, D. Jeanne
 Billings, Jos. T.
 Bilow, Arthur H., 1
 Binkley, Leona L., 2
 Birtle, James P.
 Bishop, David A., 2
 Bishop, Dudley B.
 Bishop, Frances E., 1
 Bishop, John N., 1
 Bisson, Roland P., 1
 Bittle, Miriam B.
 Black, Ernest P.
 Black, James H.
 Black, James R.
 Blanchard, Howard J.
 Blanchard, Lula Mae, 2
 Blanco, James W., S/Sgt., 2
 Bland, Catherine E.
 Blessing, Jean H., 2
 Blevins, Wm. S., 1
 Bloomfield, Geneva R., 1
 Blum, Wm. J.
 Bluthart, Bernard R.
 Blye, Ralph W.
 Bochenek, Francis S., 2
 Bodal, Joanne
 Boehm, Clifford H., Pfc., 2
 Boes, Walter W., 1
 Bogan, Alberta H., 1
 Bolenbaugh, James B., 1
 Bollinger, Loren E., 1
 Bolton, Donald E., 1
 Bond, James H., Pfc., 2
 Bonder, Geo. S., 1
 Bonner, Clifford M.
 Bonney, June T., Sgt., 2
 Booco, Roger K., 1
 Boone, Irene F., 1
 Boone, John R.
 Boppel, Henry L.
 Borchers, John A., 1
 Boss, Herbert D., 1
 Boster, Richard H., 1
 Boston, Bernard C., Capt., 2
 Bovee, Chas. C., Sgt., 2
 Bowen, Patricia A., 2
 Bowen, Solomon T.
 Boyce, James T., Lt.
 Boyd, Gerald M., 1
 Boyd, James W., 1
 Brackman, Robt. M.
 Brackney, Robt. E.
 Brater, Hazel L., 1
 Bray, M. Fletcher
 Breen, Wm. H., Capt.
 Brennan, Paul H.
 Brewer, Raymond T., 2
 Brewster, James C., 1
 Briem, Denver

 Bright, Effie Louise
 Brining, M. Lucille
 Broderick, Douglas
 Brookes, Ralph W., 1
 Brookey, Gerald E., 1
 Brooks, Jack E., 1
 Brooks, Jack F., 2
 Brooks, Jeannette F.
 Brose, Herbert E., Maj.
 Brothers, Jos. A.
 Brown, Clifford J., 1
 Brown, James B.
 Brown, James L.
 Brown, Richard D.
 Brown, Wm. D., 1
 Brubaker, Leo N., Maj., 2
 Brunelli, Victor J., Sgt., 2
 Brunner, Thos. A., S.M.
 Bryan, Wm. A., 1
 Bugher, Shirley C., 1
 Bull, Willard S.
 Bumgardner, Clyde F., 1
 Bunnell, Walter J., 2
 Burd, Bernard
 Burd, Miriam
 Burda, John, 1
 Burgmeier, Carol A.
 Burley, Marguerite J., 1
 Burneka, Jos. W.
 Burns, Robt., 1
 Burton, Carroll Chas., 1
 Burton, Chas. C., 2
 Burton, Thos. L., 1
 Burton, Wm. F., 1
 Basic, Rosemary, 2
 Bussinger, Geo. A.
 Butler, Walter O., 1
 Byington, Telford S., 1
 Bynum, John G.
 Byrd, Wm. H., Lt. Col., 2

 Cain, Wm. L., 2
 Caldwell, Allen
 Caldwell, Jean A., 1
 Calhoun, James H., 2
 Camp, Paul, 1
 Campbell, Chas. W., 1
 Campbell, Delayne K.
 Campbell, Richard G.
 Cannon, Richard K.
 Carboni, Robt. O., 1
 Caresani, August, 2
 Carey, A. Elaine
 Caris, Timothy N., 1
 Carlisle, Alice P., 1
 Carpenter, Elrie H., Cpl.
 Carpenter, Okey R.
 Carr, Wilma M.
 Carroll, Wm. E.
 Carter, Don
 Carter, Donald F., 1
 Carter, E. Roberta
 Carter, Pauline Y., 1
 Carye, Raymond A., 1
 Cass, Gene G.
 Cassady, Harold P.
 Caster, Mary E., 2

- Catanzarite, Francis J., 2
 Catanzarite, Maria, 2
 Caton, Walter E.
 Cavey, John E.
 Chandler, O. J. W., 1
 Chandler, Robt. O., 1
 Chappell, Wilma, 1
 Chasens, Gertrude H.
 Chenez, Gordon H.
 Chesler, Bernard A.
 Chilstrom, Kenneth O., 1
 Chimento, Patrick J.
 Choy, Daniel J., 1
 Chrisman, Richard J.
 Chvosta, Edw. J., Cpl.
 Cigagna, Valerie, Capt.
 Circosta, Robt. S., 1
 Clark, Alfred L., 1
 Clark, Barbara A., 2
 Clark, Eva Louise
 Clark, Ralph O., 1
 Claude, Geo. A.
 Clegg, Philip H., 1
 Click, Mildred L., 1
 Clifford, Eugene T., 1
 Coakley, Wm. S., 1
 Cochran, James J.
 Coe, Don, 1
 Coffee, Janice I., Lt.
 Coffey, Francis G., 2
 Cogar, James M.
 Colegrove, Helen D., 2
 Colley, Clara P., 1
 Collier, Hesque M., 1
 Collins, Dolores, 1
 Collody, John T., 1
 Collopy, John T., 2
 Colvin, Wells O.
 Comer, John P., Lt., 2
 Compton, Jack K., Maj., 2
 Compton, Robt. A., 1
 Compton, Robt. H., 2
 Compton, Webster A., 1
 Condon, Santana Ann, 2
 Conley, Wilbur R., 1
 Conner, David
 Connolly, Martin F., 1
 Cook, Arthur B., 1
 Cook, Norbert A.
 Coolidge, Warren C., 1
 Coon, Howard
 Coon, Robt. R., Pfc., 2
 Cooper, Dick A., 1
 Cooper, Edw. H., Capt.
 Cooper, Phyllis J., 1
 Copley, John O., Capt., 2
 Coppess, Marilyn M.
 Cortner, Artie D.
 Cotton, Jos. S., 1
 Coulter, Colene C.
 Couture, Arthur L., 1
 Cowman, Chas. M.
 Crabtree, Jos. H., 2
 Craft, Mary K., 1
 Crafton, Robt. L.
 Craighead, John G.
 Cramer, Alex V., T/Sgt., 2
 Cramer, Mildred L.
 Cretcher, Donald B.
 Criswell, Earl Z., 1
 Cron, John L.
 Cronin, Timothy C., 1
 Crouch, Leonard W.
 Crowe, Wm. H.
 Crowell, Eva M.
 Crozier, Thos. J.
 Crum, Auxier J.
 Cuff, Thos. S.
 Cummings, Coleman
 Cunningham, Corinne E., 2
 Cuny, Geo. A.
 Curry, Wm. J., 1
 Curtin, Kathleen J., Capt.
 Curtis, Anna, 1
 Curtis, Margaret E., 1
 Curtis, Miles E.
 Dahnke, Leonard L., 1
 Dailey, Philomena G.
 Dallas, Marguerite V., 1
 Dalton, Raymond A.
 Danford, Gleason Y.
 Daniels, James L.
 Daniels, Mattee Lou, 1
 Dano, Leslie E., 1
 Darby, Grace L., 2
 Darling, Donna A., 1
 Darling, Frankie
 Darlington, Albert E., 1
 Darst, Hobart M., 1
 Daugherty, Don R., 1
 Davenport, Chas. P., 2
 David, Ben R., 1
 Davidson, Frank A., 1
 Davies, Wm. E.
 Davis, E. Ann, 2
 Davis, Frank Elmer
 Davis, Geo. F., 1
 Davis, Mel L., 1
 Davis, Norman E.
 Davis, Robt. R.
 Davison, L. Dale, 1
 Davison, Mildred K.
 Dawson, John M.
 Day, Robt. W., 1
 Dean, Glenna J., 2
 Dean, Reta M., 2
 Deaver, Ferne H., 2
 Debrosse, Bernard A., 1
 DeBrosse, Geraldine H.
 Deem, Richard R., 2
 DeGarmo, Julia E., 2
 Deger, John E., 1
 DeJarnette, F. Elaine, 1
 DeLaney, Helena M., 1
 DeLater, Morris E., 1
 Del Do, Louis J., 1
 Delchanty, Therese C., 2
 Denlinger, Esther B., 1
 Dennison, Margaret C., 2
 Denton, Frances, 1
 Dershem, Frances M., 1
 Detrick, Fred A.
 Deubner, Roscoe S., 1
 Devers, Alice E., 2
 Devine, Geo. A.
 DeVito, Dominick Z., 1
 DeWillis, John M.
 Dibble, Walter E., 1
 Dicken, Clifford C., 1
 Diehl, John L., 1
 Diesi, Salvador L., 1
 Dietz, Dorothy M., 2
 Dildine, Doris M., 1
 Dillard, Walter E.
 Dillon, Mary E.
 Dinsmore, Edwin A., 1
 DiPasqua, Angelo A., 1
 Dixon, Carol R., 2
 Dixon, Curtis W., 1
 Dodgson, James C.
 Doerfler, Wm. G., 2
 Dolinski, Stanley R.
 Donahue, Dan S.
 Donahue, Edw. T., Lt., 2
 Donahue, Richard J., 1
 Donnelly, Jos. P., 1
 Dooley, Mark L., 2
 Dorsten, Jos. F.
 Doughty, Doris M., 1
 Doughty, Ross V.
 Dover, Jesse W., 2
 Dowling, Joan, 2
 Downing, James D., 1
 Drake, Otis
 Dreety, Meyer H., 1
 Drennen, Thos. J.
 Dreyer, Deborah R.
 Driscoll, Jean F., 2
 Drummer, Lois A., 2
 Drummer, Robt. J.
 Dudis, Edw. A.
 Dudley, Marjorie E.
 Dudrow, Robt. A.
 Duerson, Lawrence W., M/Sgt., 2
 Duffy, Wm. M., 1
 Dull, Edmund J., Sgt., 2
 Dunaway, Bobby C., Cpl., 2
 Dunbar, Richard A., Pfc., 2
 Dunegan, Wm. A., Pfc., 2
 Dunn, James L., 1
 Dunne, Donald E.
 Durnbaugh, Marcus E., 2
 Durr, John L.
 Dusek, Theophil Walter, 1
 Dusek, Walter, 2
 Dwinell, John L.
 Dye, Howard G., 2
 Dyer, Grant A., 2
 Dyer, Homer T.
 Eads, Susan C., 2
 Eash, Harvey L., 1
 Easley, Chas. D., Capt.
 Ebert, Hugo P.
 Eckert, Allan W., S/Sgt., 2
 Eckhart, Susan C., 1
 Edmunds, Annette F., 1
 Edmunds, Ruby O., Cpl., 2
 Edmunds, Wm. H., Capt.
 Edwards, Betty I., Cpl., 2

Egar, Alpha M.
 Eichelberger, Eleanor L.
 Einbinder, Louis Wm.
 Eklund, Margaret J.
 Elbert, Virginia L.
 Ellington, Rosa Lee, 2
 Elliott, Theodore W., 2
 Ellis, Rama M., Lt., 2
 Ellism, Paula M., 1
 Ellison, Lloyd P., 1
 Ellwanger, Dorothy N.
 Elmore, Barbara A., 2
 Elston, Wm. H., 2
 Endres, Maurice E.
 England, John S.
 Erbaugh, Byron L., 1
 Erdman, Patricia A.
 Ervin, Charlotte E., 1
 Eshbaugh, Mark E.
 Etter, Don E.
 Evangelos, Ethel D., 2
 Evangelos, Geo. D.
 Evans, Billy H.
 Evans, Melva M. E.
 Everett, Nina M.
 Everling, Helmuth C.
 Fabel, Philip, 1
 Fackler, Marilyn A., 2
 Fagen, Ben W., Lt.
 Falt, Tira V., 1
 Fanning, Garner B.
 Fansler, Orla G.
 Faris, Robt. F., 1
 Farley, Daniel R., 1
 Farnham, Joyce E., 1
 Farrell, Michael E., Pfc., 2
 Farris, Nestor E., 1
 Farry, A. B., 1
 Farry, Edna H., 1
 Fawcett, Marjorie M., 1
 Feagans, Mary M., 2
 Feasel, Miriam R., 1
 Feeley, Chas. R.
 Feldman, Irvin G.
 Feldman, Rosalie R., 1
 Feller, Frederick J.
 Fennell, John E.
 Fensler, Wm. E., 1
 Ferguson, James F., M/Sgt.
 Ferguson, Winston B.
 Ferneding, Arlene M., 2
 Ferneding, Florence, 1
 Fessler, Albert L., Lt.
 Fessler, Betty J., 1
 Fessler, Francis X., 2
 Fetty, Henrietta H., 1
 Fetty, Wm. O., 1
 Ficek, John A.
 Fields, Don E., Lt.
 Filer, Harold C.
 Fink, Carvie S., Lt.
 Fink, Marjorie S.
 Finn, Mary A., 1
 Fischer, Thos. C., 1
 Fisher, Earl E., Lt., 2
 Fisher, Virginia S.

Fisher, Warren G., 1
 Fisk, Chas. K.
 Fitzgerald, Morgan J., Cpl., 2
 Flack, Chas. M.
 Fletcher, Gladys Juanita
 Floyd, Harry G., 1
 Fogt, Howard W.
 Folkerth, Margaret B.
 Follweiler, Milford D.
 Fonzi, Alfred J.
 Forbes, John D., Sgt., 2
 Ford, Geo. K., 1
 Forrest, Geo.
 Fowler, Marilyn E.
 Fox, Jerry F., 1
 Fox, Jos. E., 1
 Frankfurt, Paul
 Franklin, Douglass K., Lt.
 Franks, Donald L.
 Frantz, Alfred J., 2
 Frantz, Jacob J., Lt., 2
 Franzer, Eleanore E.
 Freedline, Yale, Lt., 2
 Freeman, Wm. R., 1
 French, James J., 1
 French, Marjorie L., 1
 Frenzi, Frank L., S/Sgt., 2
 Fried, Frances S., 2
 Friedrich, Heinz Gustav, 2
 Fritzsche, Walter O., 1
 Frizell, Martha
 Froebe, Doris J.
 Fromuth, Karl F.
 Froslie, Oliver H., Capt., 2
 Frost, Wm. A.
 Frost, Wm. R.
 Fry, Robt. G., 1
 Frye, Clarence C.
 Frye, Holton W., 1
 Fuller, Robt. L., 1
 Fuller, Thorold W., 2
 Funk, Eugene B.
 Furnas, Robt. G., 2
 Futch, Max G.
 Gaddis, Chas. G.
 Gahan, Celestia L.
 Gaines, Catherine F., 2
 Galbraith, Harold H., 2
 Gallagher, Henry D., 1
 Galloway, Thos. E., 2
 Galyon, Clarence E., S/Sgt., 2
 Gammon, Floyd J., 2
 Garbenis, Edmond J.
 Garber, Jos. R., 1
 Garber, Selma, 1
 Garcia, Rodrigo, 1
 Gardiner, Arthur L.
 Garner, August B.
 Garner, Janet M., 2
 Garner, Jos. M.
 Garsik, Warren A., 2
 Gaskins, Aubrey S., 2
 Gauder, Marilyn A., 1
 Gay, Wm. C., 2
 Gayer, Ada G.
 Geans, W. Octavia, 1

Gedra, James A., 2
 Geiger, Chester L.
 Geiger, LaVerne A.
 Geipe, Lawrence X., 1
 Geis, Jos. H.
 Gentile, Mary C., 1
 George, Drusilla A.
 Gephart, Don R., 1
 Gerlach, Genevieve
 Gerrard, Wilfred G.
 Gerspacher, Frederick A.
 Gertz, Robt. L., 1
 Getter, Margaret B.
 Geyer, Paul L., 1
 Giambrone, Liberto A.
 Gibson, Robt. J., 2
 Giffs, Katye M., 1
 Gilbert, John E., 2
 Gillaspie, Mark W., 1
 Gilliam, Hubert E., 1
 Gilmore, Elsa E., 1
 Gimbel, Wm. O., 1
 Ginther, Mildred L.
 Giuliani, Jos. L., Cpl., 2
 Glaser, Walter L., 1
 Glass, Edw. M.
 Gleason, Barbara T., 1
 Glenn, Doris
 Glenn, Lois M., 1
 Glocker, Mildred M., 1
 Gober, Betty A., 1
 Goddard, Ingrid A., 2
 Goddard, Louis H.
 Goeke, Ralph W., 2
 Goelz, Raymond F., 1
 Goens, Cleo F.
 Goertemiller, Lois M., 2
 Goff, Robt. L.
 Goldman, Leonard
 Goldzwig, Marvin L.
 Golob, Jos.
 Gomber, Walter W., 2
 Good, Frank, 1
 Goode, Richard M.
 Gooding, Mary Ann, 2
 Goodman, Marjorie W., 1
 Goodnough, Lawrence B., 1
 Gordon, Donald W.
 Gorisse, Richard A., Maj.
 Gormican, Patrick J., 2
 Goss, Ted H.
 Gottfried, Raymond N., 1
 Goubaux, Cletus A., 1
 Gouveia, Francis A.
 Graf, Edw., 2
 Graham, Chas. M., 1
 Graham, Charlie Lee, 1
 Graham, Clyde B.
 Graham, Donald K., 1
 Graham, Geo. J.
 Graham, Herbert W., Capt., 2
 Graham, Kenneth E.
 Grant, Lester B., 1
 Grant, Robt. N., 1
 Graves, Daniel M.
 Gray, Paul H., 2
 Greathouse, David, 1

- Green, Carl W., 1
 Greer, Willis B., W O
 Greger, Jack J., Maj.
 Gregory, Chas. R.
 Gregory, Paul L.
 Grier, Lawrence L.
 Grieshop, Lawrence A., 2
 Grim, Jacquelyn M.
 Grimes, Anne L., 1
 Grimes, Ray G., 1
 Groban, Robt. S., 1
 Groseclose, Leslie C., 1
 Gross, Norman E.
 Gross, Ralph E., 1
 Gross, Reinhold, 2
 Gross, Thos. H., 1
 Grubbs, Bessie B.
 Grusenmeyer, John G.
 Grusenmeyer, Robt. J.
 Guest, Alpha J., 2
 Gulino, Virgil S.
 Gunning, Marcus E.
 Gustavson, Eric C., 2
 Guy, Betty J., 1
 Guy, Betty Jane, 1
 Guy, Donna J., 1
- Haas, John A., 2
 Haas, Marie C., 1
 Hackley, Miles L.
 Hadden, Perry W., 1
 Hahn, Chas. L.
 Haines, Dallas W., 2
 Haire, John R.
 Hale, Andrews B., 1
 Hale, Dick
 Hall, Howard, 1
 Hall, Jos. E., 1
 Hall, Thos., 1
 Halloran, Anne L., 1
 Halpin, Ralph P., 1
 Hamblen, Wm. A., WOJG, 2
 Hamby, Billy D., 1
 Hamer, Lee E.
 Hamilton, John M., 1
 Hamilton, Robt. C., 1
 Hamm, Bettyjane, 1
 Hamm, James R., 1
 Hammer, Martha J., 2
 Hammerman, Ben B.
 Hample, Jos. M.
 Hample, Ruth A.
 Hampton, Robt. H.
 Hancock, John A.
 Hane, John R.
 Hankey, Robt. K.
 Hanley, Myles E.
 Hansen, Geo. J.
 Harbaugh, Nevaline G., 1
 Haring, Jack L., 1
 Harkins, Chas. W.
 Harlan, Helen F., 1
 Harman, Ronald R., 2
 Hartnett, Richard J.
 Harold, Joan V., 1
 Harr, Geo. E.
 Harrington, Archibald A., Capt.
- Harrington, Purcell S., Maj.
 Harris, Albert L., Sgt.
 Harris, Chas. W.
 Harris, Elsie L., 1
 Harris, Opal M., 1
 Harris, Robt. E., 1
 Harris, Robt. H., 1
 Harry, Patricia J.
 Hart, John P., 2
 Hart, Margaret E.
 Hassencahl, Lloyd J., 1
 Hastings, Irene L., 1
 Hatfield, Ruth C.
 Haun, Burton O., 2
 Hauser, Paul D.
 Hausmann, Jos. H.
 Haver, Francis E., Pfc., 2
 Haves, Manuel W.
 Hawke, Andrew J., S.M., 1
 Hawkins, Earle V., 1
 Hawkins, James A., 2
 Hawkins, Marlowe S.
 Hay, Bessie E.
 Hayes, Barbara A., 1
 Hayes, Kathryn M., 1
 Hayes, Wm. B., 1
 Hayson, Andrew, 1
 Hazelbaker, James W.
 Hazell, Albert H.
 Head, Theresa J., 1
 Heberle, Margaret E., 1
 Heck, Eldred E.
 Hecker, James E., 2
 Heckert, Diane, 1
 Heckman, Dean E., 1
 Heckman, Edith M., 2
 Heckman, Matilda M.
 Heintzberger, Wm. J., T/Sgt.
 Heinz, Irma C., 1
 Heitker, Mary J., 1
 Heiwig, Robt. L., 1
 Helbig, Erich M., 1
 Helke, Robt. C.
 Helmers, Lawrence F.
 Helser, Ralph E., 1
 Hemingway, Peter W., 1
 Hemker, Geo. A.
 Hemmerly, Chas. R., 1
 Hemmert, Anne L., 1
 Hendershot, Robt. A., 1
 Henderson, Albert C., 1
 Hendrick, Andrew J., Maj., 2
 Hendricks, Lesta M.
 Hendron, Jos. E., 2
 Henn, Elma G.
 Henneman, Carl D., Maj.
 Hennessy, Francis P., 2
 Hennessy, Paul R., 2
 Henning, Eugene S.
 Henry, Ann C., 2
 Henry, Earl W.
 Henry, Marlene A., 1
 Herbig, Jim A.
 Herbst, Joe M., 1
 Herbst, Mary A., 1
 Herman, Boyd F., Maj., 2
 Herman, Madonna M., 1
- Hermanet, Raymond A., S/Sgt., 2
 Herndon, Wm. F.
 Herod, Ernest M., Capt., 2
 Herring, John A.
 Herron, John R., 1
 Hershberger, Geo. A., Maj., 2
 Herz, Ginter L.
 Hess, Nancy R.
 Hester, Henry E., Capt., 2
 Hickey, Patricia M.
 Hickland, Chas. R., 1
 Hicks, Barbara H., 2
 Hicks, Russell L., 2
 Hieber, Dolores A., 1
 Hierholzer, Martha L.
 Higgins, Dorvin E.
 High, Richard
 Hildebrand, Wm. C.
 Hill, Beatrice P., 1
 Hill, Byron T.
 Hill, Donald L., 1
 Hilt, Paul H., 1
 Hiltz, Colette K.
 Himes, John R., 1
 Hinker, Arthur L.
 Hobaica, Edw. C., 2
 Hobbs, Wm. H., 1
 Hochendone, Aloysius L., S.M., 1
 Hodapp, Nancy L., 2
 Hoeller, Walter J., 2
 Hoff, Robt. B., 2
 Hofferberth, Herbert W., 1
 Hoffman, Alice M., 1
 Holeman, Wm. L., 2
 Hollis, Medford E., Capt.
 Holm, Richard A., M/Sgt.
 Homstad, Floyd F., 2
 Honeyman, Roberta, 2
 Hood, John R., 1
 Hooge, Raymond S.
 Hooke, James R., 1
 Hoover, Harold W.
 Hopkins, Janice W., 1
 Horseman, Lowell J.
 Horst, Wm. R., 1
 Horvath, Allan L., 2
 Horvath, Harry J.
 Hotz, Edmund R., 1
 Houck, H. Bernard, 2
 Houlihan, Arthur T., 1
 Hout, Wayne E., 1
 House, Emma Minnette, 1
 House, Robt. L., T/Sgt.
 Houston, Wm. W.
 Houts, Peter S., 2
 Howard, Leon R., 1
 Howard, Preston O., 1
 Howard, Robt. C., Cpl.
 Howard, Shirley M., 2
 Howell, Joyce, 2
 Howes, Thos. V.
 Hoy, Chas. F.
 Huden, James D.
 Huelskamp, Leroy P., 2
 Huey, Ronald S.
 Huff, Robt. L.
 Huffman, Carle V., 1

- Huffman, Daniel W., T/Sgt.
 Huffman, Gay S., 2
 Hughes, Carroll E., 1
 Hughes, Delmar R., 2
 Hughes, Doris A.
 Hughes, Frederick L., 1
 Hughes, Gene W., 2
 Hughes, Pauline M., 1
 Hummel, John E.
 Hundley, Harold, 2
 Hunsicker, Elmer R.
 Hunt, Marvin L., Maj.
 Hunt, Robt. W.
 Hunter, Carrie B., 1
 Hupman, John C., 1
 Hurley, Louise C., 2
 Husmann, Frederick W.
 Husser, John S.
 Huston, Jack E., 2
 Hutchinson, Bernard D., 2
 Hutchinson, John R., 1
 Hutchinson, Sterling M.
 Hutzelman, Harry V.
 Huwer, Clarence L.
 Imwalle, John J.
 Ingram, Jesse C., 1
 Ireland, Don R.
 Jackovich, John C.
 Jackson, Barbara J., 1
 Jackson, Chas. H., 1
 Jackson, James R., 1
 Jackson, James Roy, 2
 Jackson, John D.
 Jackson, Ollie W.
 Jacobs, James W.
 Jacobson, Sherman, Cpl., 2
 Jaffa, Harold S., Capt., 2
 James, Carl C., 2
 James, Carl L., 1
 James, Robt. B., Lt., 2
 James, Roy A., Lt. Col., 2
 Jamison, James D.
 Jamron, Kenneth S., Lt., 2
 Jaynes, Roy A., 1
 Jeffers, Donald L., Capt.
 Jefferson, John, 1
 Jefferson, John F.
 Jeffries, Donald W., 1
 Jenkins, Clifton
 Jenkins, Thos. H.
 Jensen, Finn H., 1
 Jepson, Harold G., Lt., 2
 Jerome, Anthony F., 1
 Jikutz, Theodore
 Johansen, Alfred P., Capt., 2
 Johnson, Bette P.
 Johnson, Chas. H., 1
 Johnson, Darwin A., Maj., 2
 Johnson, Dorothy B., 1
 Johnson, Edw. G., 1
 Johnson, James P., Lt.
 Johnson, Jessie G., 1
 Johnson, Mariesther, 1
 Johnson, Patricia Anne, 1
 Johnson, Philip H., 1
 Johnson, Robt. W., Lt., 2
 Johnston, Lillian L., 1
 Johnston, Ronald A., Col.
 Jokela, Marcia J., 1
 Jones, Arthur G.
 Jones, Clarence U., Pfc., 2
 Jones, Dennis G., 1
 Jones, Milford F.
 Jones, Thelma N., 1
 Jones, Virgil, 2
 Jordan, Robt. D., 1
 Jordan, Robt. W.
 Kable, James, 1
 Kadel, Robt. F., Sgt., 2
 Kahn, Robt. B.
 Kalbleisch, Raymond W., 1
 Kamensky, Waleryja, 2
 Kapp, Barbara M., 1
 Karl, Richard L.
 Karn, Ruth E., 1
 Karns, Bernard L., 1
 Katz, Leonard S., 1
 Kauffman, Mildred E.
 Kauffin, Cecelia T.
 Kaufmann, Martin A., Lt., 2
 Keck, Seward
 Keefe, Don R., 1
 Keehn, Frances A.
 Keeling, David W.
 Keen, Geo. K.
 Keen, Thelma J.
 Kefarl, Edw. J., 2
 Kehres, John W., Cpl., 2
 Keister, Ernest I.
 Kelble, Jerome M., 1
 Kelley, Chas. A., Maj.
 Kelley, M. Jean, 1
 Kelly, Evelyn, 1
 Kelly, Inez, 1
 Kelly, Robt. J.
 Kelly, Roderick L., Lt.
 Kelsey, Andrew J., 1
 Kemp, Homer T., 1
 Kemper, Rhea M.
 Kenison, Genevieve M.
 Kennard, Alberta J., 2
 Kennedy, John L., 1
 Kennedy, Marie T., 1
 Kennett, Roy E., 1
 Kenny, Richard G., Pfc., 2
 Kerley, Arlena, 2
 Kern, Jos. D., 1
 Kern, Lyman, 2
 Kerr, Jean L., 1
 Kerrigan, Douglas C., 2
 Kershnei, Geo. R., 1
 Kessler, Kenneth C., 1
 Kester, Byron E.
 Keys, Boyd H.
 Kidd, Samuel B.
 Kile, Victor R.
 Kimball, Robt. L.
 Kindrick, Wm. B., 2
 King, Bennie M., 1
 King, Clarence J.
 King, Edna S., 1
 King, John E., Lt., 2
 King, Rosetta V.
 King, Theresa L., 1
 King, Wm. H., Lt., 2
 Kingston, James H., 2
 Kinker, Clarence R.
 Kinsella, Wm. E., Maj.
 Kirchner, Joan M., 1
 Kissell, Kenneth E., 1
 Kitain, Irving B.
 Kittel, Harold L.
 Kizlar, Ruby L., 2
 Klank, Walter C.
 Klare, Wm. W.
 Klein, Wm. E.
 Kleinknecht, Mary K., 1
 Knapke, Thos. L., 1
 Knapp, Wallace B., 2
 Knese, Mary E., 1
 Knickrehm, Walter A.
 Knott, Mary Ann, 1
 Knox, Warren H.
 Koch, Albert F., S.M., 2
 Kocher, Donna M., 2
 Koehck, Adolph K., 1
 Koehler, John E.
 Kokkinou, Epiphane Clara, 2
 Koneeny, Margaret A., 2
 Konen, Geo. H.
 Kontorski, Jos. W., S/Sgt., 2
 Kopp, Rita Gay, 1
 Korner, Ralph W.
 Kosnik, Leonard F., Lt., 2
 Kossler, Richard J., M/Sgt.
 Kotsko, Jos. C., Lt., 2
 Kotz, Warren C.
 Kozlowski, John Walter
 Kramer, Mabel F., 1
 Kratzer, Frederick A., 1
 Krebs, Eleanore M., 2
 Kreitzburg, Harry L.
 Krohn, Donald R., 1
 Krueck, Robt. T., 1
 Kubisiak, Robt. F., 1
 Kufahl, Ethel L.
 Kuhn, Rose J., 1
 Kuhn, Thos. E., 1
 Lafferty, Herman J.
 Laffin, Robt. G., 1
 LaFramboise, Leo F., 1
 LaGrasso, Clare A.
 Lake, Lynn J., 1
 Lake, Otis F.
 Laman, Mary A.
 Lambecht, James W., 1
 Landis, Phyllis J., 1
 Landsiedel, James A., 2
 Lane, Wm. L.
 Langhaim, Raymond H., Maj., 2
 Langman, Beulah L., 2
 Lanon, Guy W., Capt., 2
 Lansdown, Alice Ruth
 Lantz, Chas.
 Lapp, Isabel, 1
 Larkin, Chas. E., 1
 Larson, Allen J., 1

- Larson, Lauritz S.
 Lasanen, Geo., 1
 Laslo, Michael, 1
 Lasswell, Martha V., 1
 Lauber, Floyd J.
 Lauber, Sylvester M.
 Lauder milk, Thos. R.
 Laudig, Walter C., 1
 Laughlin, Jos. S., 1
 Lazier, Wilma J., 2
 Leary, John F., Lt., 2
 LeBourveau, Frank R., Capt., 2
 Lechleitner, Fred H.
 Lee, Lorene C.
 Lee, Raymond K.
 Lee, Rudolph M., 1
 Leggett, John C., 1
 Lehman, Helen L.
 Lehwald, Heinz T., S/Sgt., 2
 Leibold, Louis J.
 Leibrock, Letha D., 1
 Leiser, Geo. A., Capt.
 Lemming, Raymond L., 1
 Lendzian, Norman T., 1
 Leopold, Edw. F.
 Lester, Elwyn E., 1
 Lett, Alva F., Capt.
 Lett, John D.
 Lett, Marie J.
 Lewicki, Clemens, M/Sgt.
 Lewin, Francis N.
 Lewis, Carlton H., 1
 Lewis, Clarence E.
 Lewis, Edythe M., 1
 Lewis, Glenn H., 1
 Liamos, Geo. S., 1
 Lickliter, Kenneth R.
 Lilly, Myra L., 1
 Limeburner, Hazel I., 1
 Limeburner, John E., 1
 Lindgren, Travers A., 1
 Linebaugh, Dale E.
 Linn, James W.
 Linthicum, Wm. A.
 List, Jean A., 1
 Little, Charlotte R.
 Little, Floyd W.
 Littleton, Lenore B.
 Lodge, Frank L.
 Lohr, Erma L.
 Lohr, Loretta A.
 Lohr, Ralph J.
 Lombard, John A., 2
 Lombardi, Victor M., 1
 London, Edmond
 Long, John W.
 Long, Louise E.
 Long, Tonia, 2
 Longo, Michael, 1
 Lormand, John E., Sgt., 2
 Loukos, Donald F.
 Loux, Robt. E.
 Lovas, Stephen
 Lower, Paul E.
 Lozito, Francis C., 2
 Luchsinger, Clarence W., 1
 Luckoski, Joan M., 1
 Luehrmann, Grace E.
 Lumpkin, Norma J.
 Lustig, Donald H., Lt. Col.
 Lynch, Richard A., Cpl., 2
 Lyons, Chas. N.
 Lyons, Jos. G.
 Lyons, Robt. A.
 Lyons, Wm. E.
 McAdow, John H., 1
 McBride, Robt. E., 1
 McCabe, Wm. O.
 McCandless, Mary R., 1
 McCarthy, Daniel R.
 McCarthy, Edwin J., 2
 McClary, Jack B.
 McClelland, Harriet
 McClure, Wm. K.
 McConocha, Paul R., 1
 McCool, Martha E., 1
 McCord, Ross L.
 McCorkett, Pierre J., Capt., 2
 McCrate, Paul B.
 McCurtin, Shirley J., 1
 McCutcheon, Paul R., 1
 McDonald, Wm. T., 1
 McDonough, John W.
 McDowell, Betty R., 2
 McDowell, Chas. W.
 McElwee, Howard L.
 McEvoy, Leo P., 1
 McGervey, Walter E., 1
 McGraw, Roland F., 1
 McGree, Wm. F.
 McGuire, Thos. J., 2
 McHaffie, John C., 1
 McHenry, Verna H., 2
 McIlrath, Robt. J., 1
 McKale, Kenneth J., 1
 McKay, Jeannette, 1
 McKee, Berenice L.
 McKee, Virgil W.
 McKeehan, James E., 1
 McKemie, Alma E., Capt., 2
 McKinney, Ramon, 2
 McLachlan, Jos. J., Maj.
 McLain, Betty J., 2
 McLemore, Thos. E., 1
 McMahon, James P., 1
 McMahon, Kathryn B., 2
 McMillin, Virginia A.
 McNamara, James F., Maj.
 McNeill, Jean Mary
 McReynolds, Malcolm
 MacArthur, Guy
 MacDonald, Thos. E., 1
 MacKenzie, Norman D., Lt. Col.
 MacNealy, Robt. G.
 Magoto, Jane C., 2
 Mahaffey, Richard G.
 Malavich, Chas., 1
 Mallory, John W., 1
 Malone, John F., 1
 Maloney, Wm. T., 1
 Malzeke, Harry F., Pfc., 2
 Managan, Richard F., 1
 Manier, Jack F.
 Manker, Wm. M., 1
 Manning, James F., Cpl., 2
 Manzi, Saverio, 1
 Mapp, Robt.
 Markle, Chas. W., 1
 Markey, Lewis F., 1
 Marks, Gerald, Lt., 2
 Marlin, Don L., 1
 Marshall, Angela L., 1
 Marshall, Everett M.
 Marshall, Patricia K., 1
 Marten, Robt. L., 1
 Martin, Daniel J.
 Martin, Herman J.
 Martin, James F., 1
 Martin, Wm. J., 1
 Martinko, Russell D., 1
 Massey, Pat H., 1
 Massing, Leonard J.
 Massip, Donald L., 1
 Masters, Pauline P.
 Matheny, Walter C.
 Matherly, Wm. M.
 Mathison, Frances C., Sgt., 2
 Matt, Geo. J., 1
 Matthews, Alexander
 Maurer, Isabelle E., 1
 Mauro, John N.
 May, Wm. L.
 Mazuer, Thos. J., 1
 Mee, Richard A.
 Meehan, Robt. F., 1
 Mehlhoff, Clarence V.
 Meier, Fred
 Meixell, Richard D.
 Melnick, Paul E.
 Melnick, Walter
 Mendenhall, Geo. W., Capt., 2
 Menifee, Marlene, 1
 Merriam, Floyd F., 1
 Messerschmidt, Eugene W.
 Messina, Alfred, 1
 Mestern, H. Edw., 1
 Meyer, Donald J., 1
 Meyer, Irene M.
 Meyer, Robt. H.
 Meyers, Richard B., 1
 Michael, Elizabeth A., 1
 Michel, James R., 1
 Middleton, GERALYN A., 1
 Milchiori, Martha A., 2
 Miles, Allie W., 1
 Miles, Robt. H., 1
 Millard, Robt. G., 1
 Miller, Anthony T.
 Miller, Clara Belle, 2
 Miller, Doris C., 1
 Miller, Florence B., 1
 Miller, Helen Beverley, 2
 Miller, I. Lester, 2
 Miller, James D., Capt.
 Miller, Joanne M.
 Miller, Mary H., 1
 Miller, Maxie D.
 Miller, Patricia T., 1
 Miller, Patricia W.

- Miller, Robt. D., 1
 Miller, Robt. W., Sgt.
 Miller, Vela M.
 Mills, Lillian E., 1
 Mills, Orvis D.
 Minerick, Katherine F., M/Sgt.
 Minett, Robt. T., Capt.
 Ming, Oliver A., 1
 Minnich, James I.
 Minnich, Omer M., 1
 Minnich, Robt. W., 1
 Minor, Mary L., 1
 Minter, Harold R.
 Mitchell, Coxy Davis, 1
 Mitchell, Delbert E., 1
 Mitchell, Geo. H., 2
 Mitchell, Ishmon R.
 Mitcherson, Ethel L.
 Mobley, James B., 2
 Moffat, Harold L., Maj., 2
 Mohney, Bud C.
 Mollett, Cecelia G.
 Mollman, Norbert A., 1
 Molnar, John R.
 Mondini, Emanuel F., Lt.
 Monington, Geo. D., 2
 Monnig, Robt. F., 1
 Monnin, Mary Ann
 Moody, James N.
 Moore, Bronson, 1
 Moore, Carolyn D.
 Moore, John E., 2
 Moore, John F., 1
 Moore, Margaret G., Sgt., 2
 Moorhead, Tommy E., 1
 Moorman, Kenneth A., S/Sgt., 2
 Moravec, Adolph F., Lt., 2
 Morgan, Harry S.
 Morgan, Helen V., 1
 Margan, Mary M.
 Morgan, Pauline M., 2
 Morgan, Robt.
 Morningstar, Murel G., 1
 Morris, Eldon W., Lt., 2
 Morris, Joanne
 Morris, Wm. C.
 Morrissey, Grace E., 2
 Morse, Carson C., 1
 Mortimer, Earl E.
 Moses, Raymond C., 2
 Mosey, Martha C.
 Moss, Frederick, 1
 Motes, John J., 1
 Motes, LaVersa J., 1
 Mottey, Geo. A., 1
 Mountain, Martha D.
 Moyer, Lawrence E., 1
 Mraz, Geo. D., Lt.
 Mraz, Kathryn A., 1
 Muldoon, Anna Marie
 Mullarkey, Thos. F., 1
 Mullen, Allan J., Cpl., 2
 Murnane, Timothy A., 1
 Murnin, John J., 1
 Murphy, Daniel T., 1
 Murphy, Harry D., 1
 Murphy, James A., 1
 Murphy, Lorraine M., 2
 Murray, Carol Faith, 2
 Murray, Sara A., 2
 Myers, Dorothy O., 1
 Myers, Marian A., 1
 Myers, Wm. P.
 Nace, Alice, L., 1
 Nadeau, Jean W.
 Nadlin, Emanuel
 Naegeli, Bettye J., 2
 Napier, Stella S., 1
 Naragon, Olrou B.
 Nared, Vera J., 1
 Nash, Elmer D.
 Nash, Wm. F.
 Nathan, Benno
 Neff, Mary Ellen, 1
 Nelson, Lenora, L.
 Nemes, Andrew, 2
 Nessmith, Reginald, 1
 Newcome, Eleanor Paul
 Newman, John M.
 Newman, Willis G., S/Sgt., 2
 Nichols, Alvin, 1
 Nicholson, Gilbert O.
 Nicholson, James F.
 Nickelson, Robt. L.
 Nicol, Jack T.
 Nieberding, James R.
 Nielsen, Dale G., 1
 Nieto, Robt. S., 1
 Ning, Ted C., 1
 Noble, Esther E., 1
 Noland, Eleanor I., 1
 Nolin, Gervais R.
 Norton, Delores G., 2
 Norton, Patricia L., Lt., 2
 Novak, Ernest A.
 Null, Wilbur H.
 O'Brien, John P., 1
 O'Brien, Theresa A., 2
 O'Connell, Daniel J., 1
 O'Connell, Patrick J., 1
 O'Dell, Jo Ann, 2
 Odell, Sarah E., 2
 O'Dell, Wm. T., 2
 O'Dowd, John M., Cpl., 2
 Oelslager, Avenelle L., 1
 Ogdan, John 2
 Ogle, Janet E., 2
 Oglesby, Frank R.
 Ogletree, Edw. J.
 Ogletree, W. Briggs, 2
 Ogletree, Wilmer B., 1
 Ohlstein, Myron, 1
 Olsson, Robt. M., 1
 O'Malley, James J.
 Omeitanski, Geo. M., 1
 Onerem, Jack D.
 O'Rielly, Phillip A., 2
 Oroszi, John, 2
 Orr, Jack P., Maj., 2
 Ortman, Wm. D., 2
 Osborne, Barbara A., 1
 O'Toole, Edgar W.
 Otto, Eugene M.
 Otto, Howard R., 2
 Overcash, Frank J., 2
 Owsiany, Stephen M.
 Paetz, Paul E.
 Paletz, Stanley G., 2
 Palmer, Leonard W., Lt. Col.
 Palmstag, Herbert M., Capt.
 Papadopoulos, Geo. D., 1
 Parker, Earl C.
 Parker, Robt. N., 1
 Parker, Stanley E., Maj., 2
 Parkinson, Geo. A.
 Parks, Rose V., 1
 Parris, Audrey G., 1
 Parrish, Paul H., 1
 Paterson, Ellen J.
 Patric, Patricia A.
 Patterson, Elsa C., 1
 Patterson, Jos. L.
 Patterson, Luddie E., 1
 Paulisin, Agnes, 2
 Paulson, Ardell C., 1
 Pavuk, Stephen B., 2
 Pawlento, Nikolai, Pfc., 2
 Pax, Mary M., 1
 Payne, Sarah Arrella
 Pearson, Robt. C.
 Peirson, Annabelle, 1
 Peirson, Eugene L.
 Pence, Cecil
 Penn, Raymond H., 1
 Pennington, Andrew E., 1
 Pepiot, Jos. H., 2
 Perkins, Paul E.
 Pernick, Julia A., 1
 Perretta, Geo. F., Cpl., 2
 Perrigo, Wm. R.
 Perry, Loretta P., 1
 Perry, Louise E.
 Perry, Thad P., 1
 Pescherine, Francis X., Lt., 2
 Petaja, Ahti E., 1
 Peter, Mary S.
 Peters, Thos. A., 2
 Pettlo, Louis W.
 Pfeiffer, James, 1
 Philippi, Joan L., 1
 Philipson, Paul
 Phillips, John S., 2
 Phipps, Aaron C., 1
 Picarelli, Rudolph R., 1
 Pierce, Arthur E., 2
 Pierce, Daniel O., Lt., 2
 Pippas, Nancy Ann, Lt.
 Pittenger, Elaine C., 1
 Platania, Jos. E., 2
 Plott, Chas. L., 1
 Podoski, John A., M/Sgt.
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 Polas, Peter G.
 Polevoy, Alexander
 Poling, Keith E., 1
 Poling, Kenneth, 1
 Poling, Nelda L., 1
 Pomerantz, Leo M., Lt., 2

- Pompan, Jacob B., Lt.
 Pontis, Marjorie L., 2
 Poole, Calvin K.
 Poore, Colan L., 1
 Poore, Ted R., S/Sgt., 2
 Pootrock, Wm. K., 1
 Poppler, Emerson L., Lt., 2
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 Porter, Robt. E.
 Potter, James G., 1
 Potter, Joel E.
 Powe, Wm. C., 2
 Powers, John R., 1
 Powers, Marilyn J., 1
 Prall, Walter H., 1
 Prasmantas, Liounginas, 1
 Prentice, Francis C., 1
 Price, Alberta H., 1
 Price, Margaret E., 1
 Prince, Jos. A., 2
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 Proffit, Mercedes G., 1
 Pryor, Willie N., 1
 Pugh, Mary F., 2
 Putsipher, Robt. K., 1
 Puterbaugh, Gloria A., 1
 Puterbaugh, Raymond G.

 Qualters, James R., Lt., 2
 Queener, Burl J.

 Raab, Harold W.
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 Ramirez, Victor M., 1
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 Rankin, Byron A., 1
 Rankin, Roland G.
 Ransom, Omer M., 1
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 Reich, Marilyn L.
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 Reichert, Hedvic O., 1
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 Reynolds, Corbin
 Reynolds, Rex R., 1
 Reynolds, Wm. E.
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 Rhodes, Louis H., 1

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 Rice, John B.
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 Riesterberg, Robt. L., 2
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 Taylor, Robt. Carl
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 Thomas, Geo. S., 2
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 Thompson, Francis N., Maj., 2
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 Timmer, Julie, 1

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 Todd, Chalmer G.
 Todd, Mary M., Lt., 2
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 Toney, Ida M., 2
 Tononie, Angelo D., Lt., 2
 Toshach, Salla A., Sgt., 2
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 Trainor, Richard J., 1
 Trebnik, Augustine
 Trenkle, Philip B., Capt., 2
 Trick, Angela M., 2
 Trissel, Paul E.
 Troxel, Chas. A., 2
 Trucano, Guy L., Jr., 2
 Trulson, Curtis C., 1
 Tsarones, James, 1
 Tuck, John C., 1
 Tullis, John M.
 Turner, Estella M., 1
 Turner, Kenneth M.
 Turner, Marguerite J., 1
 Turpin, Garfield R., Lt.
 Turpyn, Geo. C., Capt.
 Tweton, Gladys V.
 Tychsen, Bette A., 2
 Tychsen, Chas. E.
 Tyrrell, Robt. C.

 Uhlenhake, Adele M., 1
 Uhlenhake, Roma C., 1
 Uhrig, Robt. A., 1
 Uttenweiler, Frederick L., Capt., 2

 Vallo, John R., Jr., 2
 Vallo, Victor C.
 Van, Herbert A.
 Vance, Geo. C., 2
 Vander Vennet, Kenneth R., 1
 Vander Vennet, Elizabeth O., 1
 Van Horne, Warner N., 1
 Van Landingham, Donald R., 1
 Van Laar, John, 1
 Van Skyhawk, Hugh C., 1
 Van Vessen, L. Gail, 1
 Van Zant, Wm. L., 1
 Varner, Glenda R., 2
 Vergason, Warren, Sgt.
 Vescio, Fred J., 1
 Veselenak, Melana, 2
 Villars, Julius G.
 Vincent, Mary M., 1
 Vincent, Oliver R., 1
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 Voelkl, Wm. E., 1
 Voerge, Harry W.
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 Wald, M. JoAnn., 1
 Waldenburg, Nelson G., 1
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 Walker, Elizabeth
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 Walkinshaw, Burrell, 1
 Wall, Ada B., 1
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 Walsh, Vincent J., 1
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 Wampler, Roberta A., 2
 Ward, Elizabeth F.
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 Warlin, Daniel H., 1
 Warner, Donald R., 1
 Warner, Raymond P., 1
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 Wathen, Thos. W., 1
 Watson, Avery D., 1
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 Weaver, Olive B., 2
 Weaver, Robt. J., 1
 Weaver, Wilbur A., Capt.
 Webb, Everett D.
 Webb, Willa F.
 Webb, Wm. L.
 Weber, Audrey M., 2
 Weber, Ruth L., 2
 Webster, Winifred E.
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 Weidinger, Dorothy H., 1
 Weir, Richard L., 1
 Weis, Marcia M., 1
 Weise, Harry W., S/Sgt., 2
 Weiser, Robt. J., 2
 Weiss, Adolph F., 2
 Weldon, Fred O., Jr., Cpl.
 Wells, Chas. E.
 Wells, David E., Cpl., 2
 Wells, Imogene R., 1
 Wells, Mary F., 1
 Wendeln, Donald E., 1
 Wendling, Joanne R., 1
 Werling, Betty J., 2
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 Weter, Marguerite D., 1
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 White, Estus E., 1
 White, Lacy W., 1
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 Whiting, Geo. E.
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 Wilcox, Richard M.
 Willdenberg, Gerald H., 1
 Wilkening, Virginia A.
 Wilkins, James W., 1
 Williams, Ella L., 2
 Williams, Ernest B., 1
 Williams, Frank L.
 Williams, Geo. H., Lt. Col., 2
 Williams, Leslie M., Sgt., 2
 Williams, Margie J., 2
 Williams, Robin S.
 Williams, Rosella C., 2
 Willis, Clifford E., 1
 Willner, Wm. F., Capt., 2
 Wimmers, Helen C., 2
 Wimsatt, Clarence E.
 Wimsatt, James E.
 Winborn, Conrad W., Pfc., 2
 Wineka, Jack, 2
 Winterhalter, Paul B.
 Wishcow, Donald F., 1
 Withrow, Joe D., Maj., 2
 Witt, Orval E.
 Wittenberg, James W., 1
 Witter, Mary S.
 Wittke, Robt. F., 1
 Witzig, Edw. F., Capt., 2
 Woida, Jos. A., Maj., 2
 Wolf, Dorothy E., 2
 Wong, Joe C., Sgt., 2
 Wood, Curtis E.
 Wood, Frederick S.
 Wood, Signe J.
 Woodall, Arthur E.
 Woolfork, Robt. E.
 Woolfolk, Wm. F., Capt., 2
 Workman, Delbert L.
 Wormwood, Eunice I.
 Worth, David T., 1
 Wourms, Francis J.
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 Wright, Jack M., 2
 Wright, John H.
 Wright, Robt. B.
 Wuebker, Joan M., 1
 Wuest, Paul F., Sgt., 2
 Wyen, Mary E., 1

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 Yasecko, Jos. S., 2
 Yearick, Harry G.
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 Yoshimi, James M., 1
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 Young, Albert B., 1
 Young, Evan W.
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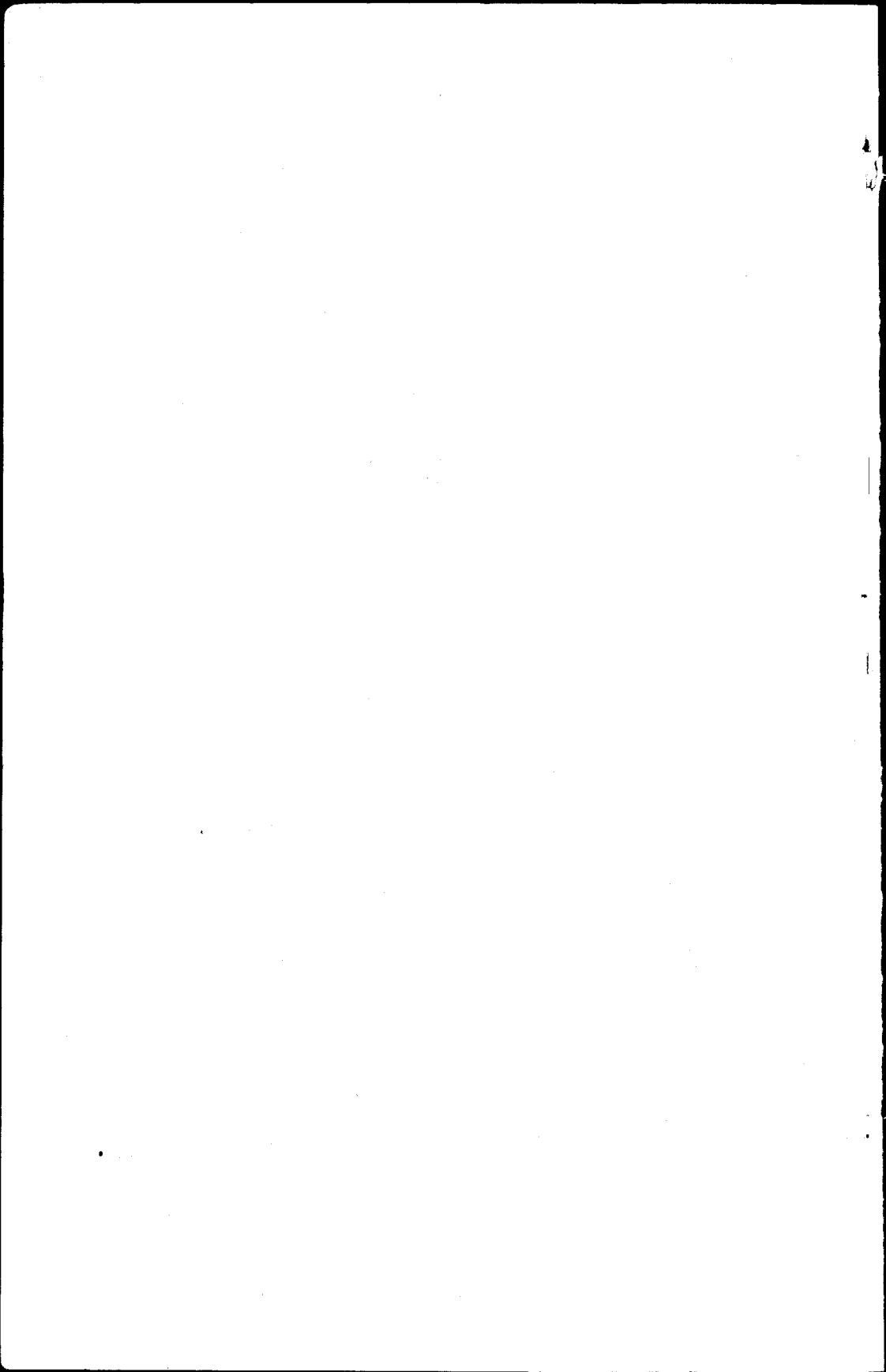
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